APPROVAL TO DRILL A WELL

National Energy Board / Office national de l'énergie

Exploratory ☒ Delineation ☐
Development ☐ Service ☐

APPROVAL TO DRILL A WELL

This application is submitted under Section 82 of the *Canada Oil and Gas Drilling Regulations*. When approved under Section 83 of the Regulations, it is the requisite approval for the commencement of drilling operations.

Well Name: ANADARKO NETLA A -68

Operator: ANADARKO CANADA CORPORATION Program No.: N/A

Contractor: AKITA DRILLING LTD. Interest Identifier:

Drilling Rig or Unit: 55 Estimated Well Cost: $3,000,000

Location-Unit: A Section: 68 Grid 60° 50' 122° 30'

Coordinates: Lat.: 60° 47' 07.4" N Long.: 122° 41' 38.9"

Area: NETLA Field / Pool: NPW

Elevation-KB/RT: 653.5 m (ASL) GL / Seafloor: 648.7 m

Approx. Spud Date: January 15, 2002 Est. Days on Location: 25

Anticipated Total Depth: 2404 m Target Devonian Slave Point

EVALUATION PROGRAM

Ten-metre sample: N/A

Five-metre sample: Surface Casing Shoe (550 m) to Total Depth

Canned sample intervals: -

Conventional cores at: -

Logs and Tests: SP Induction Resistivity, CNL-LDT-PEF, Sonic, GR, CAL

CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m KB)	Cementing
406.4 mm	Conductor Pipe		± 20 mKB	Pressure
244.5 mm	59.6 kg/m	K-55	±550 mKB	550 - Surface
178 mm	38.7 kg/m	L-80	±1957 mKB	1957 - 500 m

B.O.P. Equipment: 279.4 mm x 21 mPa BOP Stack (1 - Annular, 1 - Double - Pipe and Blind, 1 - Single - Pipe), 1 - 34.5 mPa Double Gut Choke Manifold.

Other Information: Request Authorization to Set Surface Casing at 550 m Based on Suncor Netla K-77.

Signed: Stan Weich Title: Senior Drilling Officer

Responsible Officer

Name: Stan Weich Company: Anadarko Canada Corporation

Date: November 30, 2001 Phone: (403) 231-0190

APPROVED

An approved copy of this notice is to be posted at each wellsite.

Date: Feb 11/02 Signed: T M Baker

Chief Conservation Officer

File: 9211-A069-1-1

WID: 1936

UWI: 300A686050122300

Canada

APPROVAL TO ALTER CONDITION OF A WELL

Board de l'énergie

APPROVAL TO ALTER CONDITION OF A WELL

This application is to be submitted to the Chief Conservation Officer at least 45 days before commencement of operations.

Well Name: Anadarko Netla A-68 Area: Netla

Operator: Anadarko Canada Corp Contractor: Akita Drilling Ltd.

Drilling Rig or Unit: 55 Depth: 2040 mKB

Coordinates. Lat 60° 47' 07.4" N Long: 122° 41' 38.9" W

Date AOW Issued February 11, 2002 Date of last Operation: Currently drilling

Elevation-KB/RT: 654.01 m (ASL GL / Seafloor: 649.30 m

TYPE OF OPERATION

Open hole completion of Slave Point

SUMMARY OF PROPOSED OPERATIONS

Set permanent packer in 177.8 mm casing landed at 2024 mKB
Sting into packer with 88.9 mm production string
Flow well for 24 hours to evaluate unstimulated Slave Point
IF REQUIRED, STIMULATE Slave Point with coiled tubing
and perform acid wash and squeeze.
Clean up for 24 hours.
Land recorders.
Test for 5 days.
Shut-in well for 21 - 28 days.
Retrieve recorders.
Suspend wellbore.

Signed: John Graca Title: Engineering Supervisor

Responsible Officer

Name: John Graca Company: Anadarko Canada Corp.

Date: March 12, 2002 Phone: 403 - 231 - 0147

APPROVAL

An approved copy of this notice is to be posted at each wellsite.

Signed: T M Baker

Chief Conservation Officer

Date: Mar 13/02

Current Well Status

Suspended ☐

Completed ☐

Abandoned ☐

File: 9211-A069-1-1

UWI 300A686050122300 WID: D36

Canada

FINAL WELL REPORT

N.E.B. COPY

FINAL WELL REPORT

ANADARKO CANADA

ANADARKO NETLA A-68

Grid #60 50',122 30'

DATE: MARCH 5,2003
COMPANY REPRESENTATIVE: STAN WEICH

Example
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A. INTRODUCTION

Anadarko Canada drilled a 2078 metre exploratory well spudded on February 23,2002 and finishing on March 16,2002 to evaluate gas potential in the Slave Point formation at a depth of 2021 mKB.

The drilling contractor was Akita Drilling based out of Calgary, Alberta. The drilling rig used was a mechanical land rig rated for 2500 m. The rig had a 68 m^3 mud system and was equipped with two boilers.

The well was drilled on SDL No 13 in which Anadarko Canada has a 100 % working interest. Authority to Drill No. WID 1936 was issued to Anadarko Canada on February 11,2002.

The well which was located approximately 98 km northeast of Fort Liard. The exact co-ordinates of the well are as follows:

Latitude: 60 47' 07.4" N
Longitude: 122 41'38.6"

Cancor Rathole moved onto location on February 16,2002 to drill conductor hole. The conductor hole was drilled dry to 20m and 508 mm conductor pipe was run and pressure cemented.

The Akita 55 rig was moved onto the location February 20,2002 and the well spudded on February 23,2002 at 01:00 hours to drill the 311.2 mm surface hole to a depth of 560 m. The 244.5 mm X 59.6 kg/m X L80 LT&C surface casing was set with the shoe depth being at 560 m. The surface casing was cemented with 31.7 tonnes of Class 'G' plus 1% of calcium chloride and had good mud returns throughout the cement job(4.0 m^3 returns of cement). The plug was bumped with 3,500 kPa and the pressure held. The plug was down at 01:30 hours on February 27,2002.

The BOP's were installed and pressure tested. The annular preventor was pressure tested to 1,400 kPa low and 10,500 kPa high. The pipe rams, kelly cock, and stabbing valve were tested to 1,400 kPa low and 21,000 kPa high. The accumulator precharge bottles were checked and the accumulator function tested prior to drilling out.

The float collar and shoe were drilled out on February 23,2002. A formation leak off test was done and the gradient was taken to 20.6 kPa/m without breaking down the formation. The 216 mm intermediate hole was drilled ahead to the KOP at 960 m. The well then built to an angle of 15 deg on azimuth of approximately 146 degrees. The hole angle and azimuth were held to the intermediate casing point at 2028m MD(1993m TVD) in the Slave Point..

After intermeiate total depth had been reached the open hole was logged by Schlumberger. Log run # 1 was a GR-BHCS-EDAC-AIT from INTERMEDIATE total depth to

the surface casing shoe.

After logging was completed the 178 mm intermediate casing 38.7 kg/m L80 LTC casing was run to a depth of 2024m MD. The casing was cemented as follows: 6.0 m3 of diesel preflush,3.0 m3 of NOWFLUSH 6C,3m3 of 1:1:2 + 0.05% CD31 scavenger slurry,18.67 tonne of 1:1:2 + 0.05% CD31 fill cement at 1682 kg/m3 and 7 tonne 0:1:0 Class 'G' + 0.20% R-6N + 0.80% NFL-2 + 1% CaCl2. Displace with 40.08 m3 of water. Bump plug at 21:00 hours March 9,2002. Pressure test to 21 000 KPa for 5 minutes(floats held).

The float collar and shoe were out on March 11,2002. A formation leak off test was at 2031 mMD and the gradient was 12.65 KPa/m. Drilling of the 156mm main hole continued until a 0.25m drilling break occur at 2047m. Full returns were lost . Fluid was continually pumped and LCM pills pumped until the losses had fallem from 18 m3/hr to 2m3/hr. Additional water trucks were brought in to haul water from a nearby lake.Drilling continued to 2060 mMD with partial returns and LCM pills being spotted. Drilling was halted at 2078m MD. Fluid was continuously pumped down the annulus until a retrievable production packer and tail pipe were set at 2012 m and pressure tested to 17 000 KPa. The drilling rig was released at 24:00 hrs March 16,2002 to the Anadarko Canada completion group.

A cement bond log was run back to surface. 89mm mm tubing was picked up and run in. Difficulties occurred when trying to stab the 89mm tubing string in to the packer. Hole began to take fluid inidicating that the packer was failing. Packer could not be retrieved so a second permanent packer and tailpipe were set at 2000.57m. Tubing was landed and the wellhead installed and pressure tested. A flow test was started on March 23,2002 and continued until April 2,2002 when the well was shut in.

B. GENERAL DATA

1. Well Name: Anadarko Netla A-68

Authority to Drill a Well No:.	WID# 1936
Exploration Agreement Number:	SDL 13
Location Unit:	A
Section:	68
Grid Area:	60 50',122 30'
Classification:	Exploration

2. Well Location:
Coordinates: Latitude: 60 47'07"4

Longitude: 122 41'38.6"

3. Unique Well Identifier:300A686050122300

4. Operator: Anadarko Canada

5. Contractor: Akita

6. Drilling Unit: 55

7. Position Keeping: Not Applicable, Land Rig

8. Support Craft (Helicopter): Trucks

9. Drilling Unit Performance: Satisfactory

10. Difficulties and Delays: remote access, loss circulation

11. Total Well Cost: Drilling(including access road and lease) $2,800,000
Completion: $800,000

12. Bottom Hole Co-ordinates(NAD 27):
N 6738756.08.....
E 516757.77 .....

C. SUMMARY OF DRILLING OPERATIONS

1. Elevations:
Ground: 649.30(m above sea level)
KB: 654.01 (m above sea level)

2. Total Depth:
FTD: 2078. mKB
PBTD: mKB Open Hole
TVD: 2044 mKB

3. Date and Hour Spudded: February 23,2002 00:01 hrs

4. Date Drilling Completed: March 15,2002 11:00 hrs ....

5. Date of Rig Release: March 16,2002 24:00 hrs....

6. Well status: Completed

7. Hole Sizes and Depths:

Conductor Hole:	609.6. mm to 20 mKB
Surface:	311.2. mm to 560 mKB
Intermediate Hole:	215.9 mm to 2028. mKB
Main hole:	155.6 mm to 2078 mKB

8. Casing and Cementing Record:

Conductor Hole:

Casing Size:	508 mm
Casing Grade:	A-52 Grade 2
Depth Set:	20 m (KB)
Cut Height:	At Surface KB
Cut off Depth:	After abandonment
Date Set:	February 16, 2002

Surface Hole:

Casing Size:	244.5 mm
Casing Weight:	59.6 kg/m
Casing Grade:	L80
Casing Make:	Tenaris
Number of Joints:	
Thread:	LT&C
Depth Set:	559 m (KB)
Cut Height:	At Surface (KB)
Date Set:	February 27, 2002
Cement Volume:	31.7 Tonnes
Float Shoe Depth:	559 m
Float Collar Depth:	246 m
Cut Off Depth:	After abandonment
Cement Type:	Class G Cement
Additives:	1% CaCl2
Cement Top:	Surface (mKB)
Casing Bowl Size:	279 mm X 244.5 mm X 21 mpa
Casing Bowl Make:	Cameron

Intermediate Hole:

Casing Size:	178 mm
Casing Weight:	38.7 kg/m
Casing Grade:	L80

Casing Make:	Tenaris	
Number of Joints:		
Thread:	LTC	
Depth Set:	2024 mKB 1990 mTVD	
Cut Height:	At surface(KB)	
Date Set:	March 9,2002	
Cement Volume:	1:1:2	0:1:0
Additives:	0.5% CD 31	0.20% R6N
		0.80% NFL-2
		1.0% CaCl2
Cement Top:	460m	

9. Sidetracked Hole: **Not Applicable.**

10. Drilling Fluid:

Conductor Hole: Dry

Surface Hole:	Gel - Chemical	
Properties:	Viscosity:	65 sec/L
	Weight:	1190 kg/m^3
	PH:	9.5
	Water loss:	10 cc
	Solids:	0.288
	Gels:	4 / 38
	Filter Cake:	3
	PV / YP:	16/7
Intermediate:		Invert
Properties:	Viscosity:	55 sec/L
	Weight:	920 kg/m^3
	PH:	
	Water loss:	2.0 cc
	Solids:	0.002
	Gels:	2/ 3
	Filter Cake:	2
	PV / YP:	55 / 2
Main:	Freshwater Polymer	
	Viscosity:	36 sec/L
	Weight:	1010 kg/m3
	PH:	11.5
	Water loss:	6.0 cc
	Solids:	0.6
	Gels:	0.5/1.5

Filter Cake: 0.5
PV/YP: 7/2.4

11. Fishing Operations: **n/a**

12. Well Kicks and Well Control Operations: **Lost Circulation In Slave Point**

13. Formation Leak Off Tests:

Depth:	565 m	2031 m
Fluid Density:	900	1000 kg/m^3
Applied Pressure:	kPa	5500 KPa
Hydrostatic Press.	kPa	20 050 KPa
Mud Weight Equi.	2100	1290 kg/m^3
Casing Setting Depth:	559 mKB	2024 mKB

The leak-off test was taken to a gradient of 20.8 kPa /m without breaking down the formation.

14. Time Distribution: See Appendice 8

15. Deviation Survey: See Appendix 3

16. Abandonment Plugs: **n/a**

17. Composite Well Record: Appendix 8 and 9

18. Completion Record: (if any)
    Start Date: March 14,2003.....
    Finish Date: April 3,2003.....
    Contractor: Akita 55.....

Completion Summary:
Date:
OH Interval: 2024-2078m MD
Flow Results: 550 E3 m3/day @ 9500 KPa
Comments: 50.8 mm choke and 76.2mm orifice plate.

Final Well Configuration:

D: GEOLOGY

Geological Summary:

FORMATION	SAMPLES(M)	LOG(M)	TVD(M)	SUBSEA(M)
Scatter Sand	-	-	-	-
Garbutt	-	560	560	94.1
Devonian Uncon.	685	676	676	-21.9
Kotcho	735	726	726	-71.9
Tetcho	1015	1014	1014	-359
Trout River	1090	1099	1099	-444.9
Kakisa	1183	1182	1181	-526.9
Ft Simpson	1225	1208	1205	-550.9
Muskwa	1993	1993	1959	-1304
Slave Point	2021	2021	1987	-1332
Slave Pt Porosity	2050	Not Logged	2015	-1360.9
Total Depth	2078	Not Logged		

Lost circulation occurred at 2047 mMD. Circulation was only partially regained hence only periodical samples were representative.

SAMPLE DESCRIPTIONS: See appendix 4

CORING RECORD: A core was not cut.

DRILL STEM TESTS: No DST's performed

WELL EVALUATION

The following logs were run: See Appendix 4.

AIT,GR,EDAC,BHC SONIC: 560 m - 2028m

GAS, OIL, & WATER ANALYSES: See appendix 1

FORMATION STIMULATION: Not applicable

FORMATION AND TEST RESULTS: See appendix 9

DETAILED TEST PRESSURE DATA READINGS: To be sent at a later date

E. ENVIRONMENTAL WELL ANALYSIS

A spill occurred during the completion of the well.

F. APPENDICES TO WELL HISTORY

(See Table of Contents)

APPENDIX 1

NORWEST LABS
Energy Resource Group
9958 - 67 Avenue, Edmonton, Alberta T6E 0P5
Phone (780) 438-5522

GAS ANALYSIS

F02-04226-01
Laboratory Report Number

Anadarko Canada Energy Ltd. (Operator)			4698/3528 (Container Identity)
A-68 (Location)	Anadarko Netla A-68 (Well Name)		654.01 (KB Elev, m) 649.30 (GR Elev, m)
Netla (Field/Area)	Slave Point (Pool / Zone)		Arctic Energy (Company)

Test Type ___ No ___
Multiple Recovery ___

Test Recovery:

Test Interval, m

Perforations, m

Wellhead (Sample Point) | (Amount & Type of Cushion) | @25°C (Mud Resistivity)

Type of Production: Pumping ___ Flowing *** Gas Lift ___ Swab ___

Production Rates: Water ___ m³/d Oil ___ m³/d Gas ___ 10³ m³/d

	Separator	Treater	Reservoir	Source	Sampled	Received
Gauge Pressure, kPa				9536		9500
Temperature, °C				41		18

2002-04-02 Date Sampled (Y-M-D) | 2002-04-04 Date Received (Y-M-D) | 2002-04-11 Date Reported (Y-M-D) | C. Jorven Analyst | Other Information

Comp.	Mole Fraction (Air Free) As Received	Mole Fraction (Air Free) Acid Gas Free	Petroleum Liquid Content mL/m³
H2	0.0000	0.0000	
He	0.0036	0.0039	
N2	0.0733	0.0799	
CO2	0.0828	0.0000	
H2S	0.0000	0.0000	
C1	0.8392	0.9150	
C2	0.0010	0.0011	3.6
C3	0.0001	0.0001	0.4
iC4	Trace	Trace	0.0
nC4	0.0000	0.0000	0.0
iC5	0.0000	0.0000	0.0
nC5	0.0000	0.0000	0.0
C6	0.0000	0.0000	0.0
C7	0.0000	0.0000	0.0
C8	0.0000	0.0000	0.0
C9	0.0000	0.0000	0.0
C10+	0.0000	0.0000	0.0
Total	1.0000	1.0000	4.0

Gross Heating Value (AGA #5)
MJ/m³ @ 15°C, 101.325 kPa

Moisture Free	Moisture & Acid Gas Free
31.78	34.64

Pseudocritical Properties

Pressure, kPa	Temperature, K
4725	194.7

Density
Moisture Free, As Sampled

Absolute, kg/m³	Relative
0.812	0.663

Relative Molecular Mass

Total Gas	C7+
19.21	0.00

H2S, g/m³
0.00

Vapour Pressure Pentanes Plus, kPa
0

Note: Physical constants used in calculations from GPA Standard 2145-95

Supervisor ___ D. Murray Approved ___ S. Montgomery

Accredited by the Standards Council of Canada for specific tests registered with the council

NORWEST LABS
Energy Resource Group

9958 - 67 Avenue, Edmonton, Alberta T6E 0P5
Phone (780) 438-5522

WATER ANALYSIS

F02-04226-02
Laboratory Report Number

Anadarko Canada Energy Ltd. — Operator
PLASTIC — Container Identity

A-68 — Location
Anadarko Netla A-68 — Well Name
654.01 — KB Elev, m
649.30 — GR Elev, m

Netla — Field/Area
Slave Point — Pool / Zone
Sampler
Arctic Energy — Company

Test Type
Multiple Recovery — No

Test Recovery:

Test Interval, m

Perforations, m

Flow Line — Sample Point
Amount & Type of Cushion
@ 25°C — Mud Resistivity

Type of Production: Pumping ___ Flowing *** Gas Lift ___ Swab ___

Production Rates: Water ___ m³/d Oil ___ m³/d Gas ___ 10³ m³/d

Gauge Pressure, kPa
Temperature, °C

Separator	Treater	Reservoir	Source	Sampled	Received

2002-04-02 — Date Sampled (Y-M-D)
2002-04-04 — Date Received (Y-M-D)
2002-04-11 — Date Reported (Y-M-D)
S. Nguyen — Analyst
Other Information

Ion	mg/L	Mass Fraction	meq/L
Na	1 840	0.2559	80.04
K	117	0.0163	3.00
Ca	645	0.0897	32.17
Mg	70	0.0098	5.79
Ba			
Sr			
Fe	Present		

Ion	mg/L	Mass Fraction	meq/L
Cl	3 565	0.4957	100.53
Br			
I			
HCO3	725	0.1008	11.88
SO4	228	0.0318	4.75
CO3	0	0.0000	0.00
OH	0	0.0000	0.00
H2S	Nil		

Total Dissolved Solids, mg/L

Evaporated @ 110°C	Evaporated @ 180°C
7 440	

At Ignition	Calculated
6 560	7 190

Organic Matter: Present

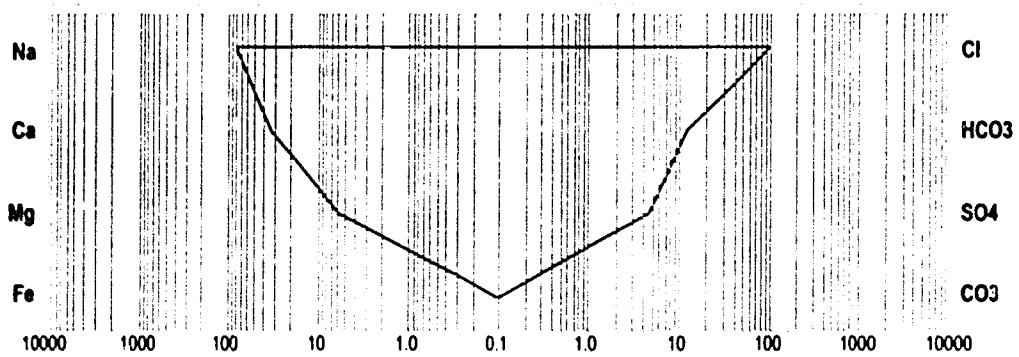
Relative Density	Refractive Index
1.006 @ 25°C	1.3347 @ 25°C

Observed pH	Resistivity ohm.m
7.4 @ 20 °C	0.862 @ 25°C

Remarks

Analysis performed on a colourless filtrate recovered from water containing sediment.

Logarithmic Pattern of Dissolved Ions, meq/L



Supervisor E. Fedorkiw Approved S. Montgomery

Accredited by the Standards Council of Canada for specific tests registered with the council

APPENDIX 2

Arctic Energy Systems Inc.

ANADARKO CANADA CORPORATION

Anadarko Netla 'A'
a-068-NWT
Slave Point

Clean Up
March 22-28, 2002

File Name: Anadarko_1289(a).CSV

FINAL REPORT PREPARED BY:
Enertec Systems
263 Bedridge Place NE
Calgary, AB T3K 1M6

Phone: (403) 275-0906
Fax: (403) 275-3423
Cellular: (403) 651-1350

Enertec Systems

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/16/2002 | Report: 26 | DFS: 22.00 | DOL: 25.00

Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800		
Liner (mm)	152.4		
Stroke (mm)	215.9		
EFF	98.0		
Press (kPa)	6,220		
SPM	75		
Output (L/mi	868.40		

Velocities

Drill Pipe (m/min)	
Drill Collar (m/min)	
Riser (m/min)	
Lag Time (min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1:	LOW DAMAGE		
Time/Loc	: /	Ca+ (mg/L)	
Depth (m)		K+ (mg/L)	
Temp (°C)		Polymer (kg/m³)	
Density (kg/m³)		CaCl2 (%)	
ECD (kg/m³)		NaCl (%)	
Viscosity (s/l)		Sand (%)	
PV (mPa*s)		Tot. Solids	
YP (Pa)		% Oil	
GELS (Pa)		% H2O	
API WL (mL)		Oil/H2O	
HTHP WL (mL)		HGSolid (kg/m³)	
API FC (mm)		LGSolid (kg/m³)	
MBT (kg/m³)		ES (mV)	
Lime (kg/m³)		Oil Ret (%)	
pH			
Pm (cm³)			
Pf/Mf (cm³ / cm³			
Comment1:			

Mud Products

Additive	# Units

Mud Cost

Daily	$0.00
Cumulative	$127,100.00

Bit Data

Bit No.	6	
Run	6	
Size (mm)	155.60	
Manu.	Smith	
Type	XR30T	
Serial No.	MK4826	
TFA (mm²)	595.7	
Depth In (m)	2,035.00	
Depth Out (m)	2,067.00	
Cum. Depth (m)	43.00	
Cum. Hours	10.00	
WOB (Min)(daN)	3,000	
WOB (Max)(daN)	6,000	
RPM (Min)	30	
RPM (Max)	60	
Cond (IODL)	6/5/FC/C	
Cond (BGOR)	2/ 2/BT/TD	
Jets 1/2/3	15.9/15.9/15.9	
Jets 4/5/6		

Pipe Data

Min ID (mm)		57.000
DC OD (mm)		
DC (m)		
HWDP OD (mm)		101.30
HWDP (m)		2,060.00
BHA		239.54
DP OD (mm)		101.30
String Rot Weight (daN)		
Pick-Up Weight (daN)		
Slack Off Weight (daN)		

BHA Desc.: PRODUCTION HOLE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.20
Bit Sub	1	1.06
Heavy Weight Drill Pipe	28	238.28

Safety Drills

Last BOP Test (P)	3/2/2002
Last BOP Test (F)	3/15/2002
Last BOP Drill	3/11/2002

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Arctic Energy Systems Inc.

ANADARKO CANADA CORPORATION

Anadarko Netla 'A'
a-068-NWT
Slave Point

Single Point Test
March 28 - April 2, 2002

File Name: Anadarko_1289(b).CSV

FINAL REPORT PREPARED BY:
Enertec Systems
263 Bedridge Place NE
Calgary, AB T3K 1M6

Phone: (403) 275-0906
Fax: (403) 275-3423
Cellular: (403) 651-1350

Enertec Systems

ANADARKO CANADA CORPORATION
Anadarko Netla 'A'
a-068-NWT

Gas Meter 1

Meter Type:	Orifice	
Meter Run Size:	102.260	mm
Previous Gas Production:	631.374	10^3m3
Tap Type:	Flange	
Tap Location:	Downstream	
Gauge to Absolute Adjustment:	90.0	
Gas Gravity:	0.663	decimal
CO2:	8.28	%
H2S:	0.00	%
N2:	7.33	%
Critical Temperature (T_c):	194.70	K
Critical Pressure (Pc):	4725.00	kPa

Oil Meter 1

Meter Type:	Produced Volume	
Measurement Type:	Incremental	
Previous Oil Production:	0.000	m3
Previous Water Production:	0.000	m3

Water Meter1

Meter Type:	Produced Volume	
Measurement Type:	Incremental	
Previous Water Production:	0.000	m3

Arctic Energy Systems Inc.

METER RECORD

ANADARKO CANADA CORPORATION
Anadarko Netla 'A'
a-068-NWT

Gas Meter 1

Meter Type:	Orifice	
Meter Run Size:	102.260	mm
Previous Gas Production:	0.000	10^3m3
Tap Type:	Flange	
Tap Location:	Downstream	
Gauge to Absolute Adjustment:	90.0	
Gas Gravity:	0.661	decimal
CO2:	7.96	%
H2S:	0.00	%
N2:	7.57	%
Critical Temperature (T_c):	194.20	K
Critical Pressure (Pc):	4713.00	kPa

Oil Meter 1

Meter Type:	Produced Volume	
Measurement Type:	Incremental	
Previous Oil Production:	0.000	m3
Previous Water Production:	0.000	m3

Water Meter1

Meter Type:	Produced Volume	
Measurement Type:	Incremental	
Previous Water Production:	0.000	m3

Arctic Energy Systems Inc.

NORWEST LABS
Energy Resource Group
9856 - 67 Avenue, Edmonton, Alberta T6E 0P5
Phone (780) 438-5522

GAS ANALYSIS

F02-04207-01
Laboratory Report Number

Anadarko Canada Energy Ltd. (Operator)			2465/2232 (Container Identity)
a-66 (Location)	Anadarko Netla A-68 (Well Name)		654.1 (KB Elev, m)
Netla (Field/Area)	Slave Point (Pool / Zone)	(Sampler)	Arctic Energy (Company)

Test Type: — No: —
Multiple Recovery: —

Test Recovery:

Test Interval, m:

Perforations, m:

Meter Run (Sample Point) | (Amount & Type of Cushion) | @ 25°C (Mud Resistivity)

Type of Production: Pumping ___ Flowing ___ Gas Lift ___ Swab ___

Production Rates: Water ___ m³/d Oil ___ m³/d Gas ___ 10³ m³/d

	Separator	Treater	Reservoir	Source	Sampled	Received
Gauge Pressure, kPa						1300
Temperature, °C				39		18

Date Sampled (Y-M-D)	Date Received (Y-M-D)	Date Reported (Y-M-D)	Analyst	Other Information
2002-03-27	2002-03-28	2002-04-04	C. Jorven	

Comp.	Mole Fraction (Air Free) As Received	Mole Fraction (Air Free) Acid Gas Free	Petroleum Liquid Content mL/m³
H2	0.0000	0.0000	
He	0.0037	0.0040	
N2	0.0757	0.0822	
CO2	0.0796	0.0000	
H2S	0.0000	0.0000	
C1	0.8398	0.9125	
C2	0.0011	0.0012	3.9
C3	0.0001	0.0001	0.4
iC4	Trace	Trace	0.0
nC4	Trace	Trace	0.0
iC5	0.0000	0.0000	0.0
nC5	0.0000	0.0000	0.0
C6	0.0000	0.0000	0.0
C7	0.0000	0.0000	0.0
C8	0.0000	0.0000	0.0
C9	0.0000	0.0000	0.0
C10+	0.0000	0.0000	0.0
Total	1.0000	1.0000	4.3

Gross Heating Value (AGA #5)
MJ/m³ @ 15°C, 101.325 kPa

Moisture Free	Moisture & Acid Gas Free
31.81	34.55

Pseudocritical Properties

Pressure, kPa	Temperature, K
4713	194.2

Density
Moisture Free, As Sampled

Absolute, kg/m³	Relative
0.810	0.661

Relative Molecular Mass

Total Gas	C7+
19.15	0.00

H2S, g/m³	Vapour Pressure Pentanes Plus, kPa
0.00	0

Note: Physical constants used in calculations from GPA Standard 2145-95

Supervisor D. Murray Approved S. Montgomery

Accredited by the Standards Council of Canada for specific tests registered with the council

NORWEST LABS
Energy Resource Group

9956 - 67 Avenue, Edmonton, Alberta T6E 0P5
Phone (780) 438-5522

GAS ANALYSIS

F02-04226-01
Laboratory Report Number

Anadarko Canada Energy Ltd. (Operator)			4698/3628 (Container Identity)
A-68 (Location)	Anadarko Netla A-68 (Well Name)		654.01 (KB Elev, m) 649.30 (GR Elev, m)
Netla (Field/Area)	Slave Point (Pool / Zone)	(Sampler)	Arctic Energy (Company)

Test Type — Multiple Recovery: No

Test Recovery:

Test Interval, m

Perforations, m

Wellhead (Sample Point) — (Amount & Type of Cushion) — @ 25°C (Mud Resistivity)

Type of Production: Pumping ____ Flowing *** Gas Lift ____ Swab ____

Production Rates: Water ____ m³/d Oil ____ m³/d Gas ____ 10³ m³/d

	Separator	Treater	Reservoir	Source	Sampled	Received
Gauge Pressure, kPa				9536		9500
Temperature, °C				41		18

2002-04-02 (Date Sampled (Y-M-D)) — 2002-04-04 (Date Received (Y-M-D)) — 2002-04-11 (Date Reported (Y-M-D)) — C. Jorven (Analyst) — (Other Information)

Comp.	Mole Fraction (Air Free) As Received	Mole Fraction (Air Free) Acid Gas Free	Petroleum Liquid Content mL/m³
H2	0.0000	0.0000	
He	0.0036	0.0039	
N2	0.0733	0.0799	
CO2	0.0828	0.0000	
H2S	0.0000	0.0000	
C1	0.8392	0.9150	
C2	0.0010	0.0011	3.6
C3	0.0001	0.0001	0.4
IC4	Trace	Trace	0.0
nC4	0.0000	0.0000	0.0
IC5	0.0000	0.0000	0.0
nC5	0.0000	0.0000	0.0
C6	0.0000	0.0000	0.0
C7	0.0000	0.0000	0.0
C8	0.0000	0.0000	0.0
C9	0.0000	0.0000	0.0
C10+	0.0000	0.0000	0.0
Total	1.0000	1.0000	4.0

Gross Heating Value (AGA #5)
MJ/m³ @ 15°C, 101.325 kPa

Moisture Free	Moisture & Acid Gas Free
31.78	34.64

Pseudocritical Properties

Pressure, kPa	Temperature, K
4725	194.7

Density
Moisture Free, As Sampled

Absolute, kg/m³	Relative
0.812	0.663

Relative Molecular Mass

Total Gas	C7+
19.21	0.00

H2S, g/m³: 0.00

Vapour Pressure Pentanes Plus, kPa: 0

Note: Physical constants used in calculations from GPA Standard 2145-95

Supervisor D. Murray — Approved S. Montgomery

Accredited by the Standards Council of Canada for specific tests registered with the council

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/28
Final Test Date: 2002/04/02

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT
Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
1	2002/03/28	07:00:00	NEW FILE STARTED FOR SINGLE POINT TEST, GAS CUMS CARRIED OVER FROM CLEAN UP														
2			MONITOR PRESSURES														
3		07:00:00	14500	5													
4		07:30:00	14500	5													
5		08:00:00	14500	5													
6		08:30:00	14500	5													
7		09:00:00	14500	5													
8		09:30:00	14500	5													
9		10:00:00	14500	5													
10		10:30:00	14500	5													
11		11:00:00	14500	5													
12		11:30:00	14500	5													
13		12:00:00	14500	5		0.000	0	0.0	0.0	0.000	631.374	0.000	0.0	0.000	0.000	0.000	0.000
14			OPEN WELL ON A 9.53 mm (24/64) CHOKE.														
15		12:05:00	13400	5													
16		12:10:00	13000	5													
17			FLUID TO SURFACE.														
18		12:15:00	13400	5													
19		12:30:00	13400	5	18.0							1.510	100.0	0.000	0.000	1.510	1.510
20		12:45:00	13400	5	18.0												
21		13:00:00	13400	5	18.0	0.000	0	0.0	0.0	0.000	631.374	0.740	100.0	0.000	0.000	0.740	2.250
22			METER IN SERVICE WITH A 76.20 mm ORIFICE PLATE, SALINITY = 2000 ppm, PH = 7.														
23		13:15:00	13500	5	18.0	76.200	138	40.3	6.0	140.520	632.838						
24		13:30:00	14000	5	18.0	76.200	165	54.3	-2.0	175.607	634.484	0.090	100.0	0.000	0.000	0.090	2.340
25		14:00:00	13800	5	20.0	76.200	207	47.8	-2.0	176.730	638.154	0.280	100.0	0.000	0.000	0.280	2.620
26			SALINITY = 1000 ppm, PH = 7.														
27		14:30:00	13900	5	22.0	76.200	207	48.9	-4.0	179.468	641.865						
28		15:00:00	14000	5	20.0	76.200	152	53.8	0.0	169.863	645.504	0.570	100.0	0.000	0.000	0.570	3.190
29			SALINITY = 1000 ppm, PH = 7.														
30		15:30:00	13800	5	19.0	76.200	138	49.0	2.0	158.037	648.919	0.290	100.0	0.000	0.000	0.290	3.480
31		16:00:00	13800	5	20.0	76.200	110	56.0	5.0	157.380	652.205	0.380	100.0	0.000	0.000	0.380	3.860
32			SALINITY = 1000 ppm, PH = 7.														
33		16:30:00	13700	5	20.0	76.200	103	47.8	4.0	142.559	655.329	0.190	100.0	0.000	0.000	0.190	4.050
34		17:00:00	13600	5	20.0	76.200	90	47.8	4.0	138.028	658.252	0.290	100.0	0.000	0.000	0.290	4.340
35			SALINITY = 2000 ppm, PH = 7.														

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/28
Final Test Date: 2002/04/02

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT

Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
36	2002/03/28	17:30:00	13500	5	20.0	76.200	96	47.8	5.0	139.882	661.147	0.290	100.0	0.000	0.000	0.290	4.630
37		18:00:00	13700	5	20.0	76.200	96	47.8	6.0	139.628	664.058	0.290	100.0	0.000	0.000	0.290	4.920
38			SALINITY = 2000 ppm, PH = 7.														
39		18:30:00	13900	5	20.0	76.200	124	53.8	0.0	160.370	667.183	0.190	100.0	0.000	0.000	0.190	5.110
40		19:00:00	13700	5	20.0	76.200	124	52.5	0.0	158.401	670.504	0.190	100.0	0.000	0.000	0.190	5.300
41			SALINITY = 4000 ppm, PH = 7.														
42		19:30:00	13700	5	20.0	76.200	124	54.5	0.0	161.552	673.837	0.290	100.0	0.000	0.000	0.290	5.590
43		20:00:00	13900	5	21.0	76.200	110	53.8	2.0	154.842	677.133	0.290	100.0	0.000	0.000	0.290	5.880
44			SALINITY = 6000 ppm, PH = 7.														
45		20:30:00	13800	5	22.0	76.200	110	49.8	4.0	148.103	680.288	0.380	100.0	0.000	0.000	0.380	6.260
46		21:00:00	13600	5	20.0	76.200	97	49.8	4.0	143.562	683.326	0.190	100.0	0.000	0.000	0.190	6.450
47			SALINITY = 6000 ppm, PH = 7.														
48		21:30:00	13500	5	22.0	76.200	83	46.1	6.0	132.397	686.201	0.290	100.0	0.000	0.000	0.290	6.740
49		22:00:00	13400	5	21.0	76.200	83	46.8	5.0	133.767	688.974	0.190	100.0	0.000	0.000	0.190	6.930
50			SALINITY = 7000 ppm, PH = 7.														
51		22:30:00	13400	5	20.0	76.200	110	52.8	5.0	152.479	691.955	0.380	100.0	0.000	0.000	0.380	7.310
52		23:00:00	13800	5	20.0	76.200	124	51.3	4.0	155.247	695.161	0.290	100.0	0.000	0.000	0.290	7.600
53			SALINITY = 8000 ppm, PH = 7.														
54		23:30:00	13700	5	20.0	76.200	138	51.8	3.0	161.033	698.455	0.280	100.0	0.000	0.000	0.280	7.880
55			START TRANSFERING FLUID TO 400 bbl TANK.														
56	2002/03/29	00:00:00	13900	5	20.0	76.200	124	55.3	2.0	162.126	701.822	0.250	100.0	0.000	0.000	0.250	8.130
57			SALINITY = 9000 ppm, PH = 7, H2S = 0 ppm. INCREASE TO A 12.70 mm CHOKE.														
58		00:30:00	12273	5	26.0	76.200	241	47.8	16.0	180.173	705.387	1.970	100.0	0.000	0.000	1.970	10.100
59		01:00:00	12239	5	26.0	76.200	228	47.3	20.0	174.546	709.082	2.790	100.0	0.000	0.000	2.790	12.890
60			SALINITY = 8000 ppm, PH = 7.														
61		01:30:00	12183	5	27.0	76.200	241	45.8	20.0	175.033	712.724	1.620	100.0	0.000	0.000	1.620	14.510
62		02:00:00	12170	5	28.0	76.200	234	46.6	20.0	174.676	716.366	2.360	100.0	0.000	0.000	2.360	16.870
63			SALINITY = 4000 ppm, PH = 7.														
64		02:30:00	12170	5	28.0	76.200	228	47.3	20.0	174.546	720.004	1.490	100.0	0.000	0.000	1.490	18.360
65			START TRANSFERING FLUID TO 400 bbl TANK.														
66		03:00:00	12170	5	29.0	76.200	234	47.8	22.0	176.470	723.661	1.880	100.0	0.000	0.000	1.880	20.240
67			SALINITY = 3000 ppm, PH = 7.														
68		03:30:00	12170	5	29.0	76.200	234	47.8	26.0	175.265	727.324	2.390	100.0	0.000	0.000	2.390	22.630
69		04:00:00	12170	5	30.0	76.200	234	47.8	26.0	175.265	730 976	1.830	100.0	0.000	0.000	1.830	24.460
70			SALINITY = 1000 ppm, PH = 7.														

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/28
Final Test Date: 2002/04/02

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT

Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
71	2002/03/29	04:30:00	12170	5	31.0	76.200	248	47.6	23.0	179.307	734.669	2.060	100.0	0.000	0.000	2.060	26.520
72		05:00:00	12170	5	31.0	76.200	234	48.6	23.0	177.589	738.387	2.090	100.0	0.000	0.000	2.090	28.610
73			SALINITY = 2000 ppm, PH = 7, START TRANSFERING FLUID TO 400 bbl TANK.														
74		05:30:00	12225	5	32.0	76.200	234	48.8	23.0	178.042	742.091	2.350	100.0	0.000	0.000	2.350	30.960
75		06:00:00	12170	5	30.0	76.200	241	49.0	23.0	180.358	745.825	1.730	100.0	0.000	0.000	1.730	32.690
76			SALINITY = 3000 ppm, PH = 7, H2S = 0 ppm.														
77		06:30:00	12170	5	31.0	76.200	241	47.8	22.0	178.276	749.561	2.120	100.0	0.000	0.000	2.120	34.810
78		07:00:00	12225	5	31.0	76.200	248	47.8	23.0	179.773	753.290	1.780	100.0	0.000	0.000	1.780	36.590
79			SALINITY = 1000 ppm, PH = 7.														
80		07:30:00	12170	5	31.0	76.200	234	47.7	22.0	176.260	756.999	2.190	100.0	0.000	0.000	2.190	38.780
81			TRANSFER FLUID TO 400 bbL TANK.														
82		08:00:00	12238	5	32.0	76.200	241	49.8	23.0	181.779	760.728	2.890	100.0	0.000	0.000	2.890	41.670
83			SALINITY = 1000 ppm, PH = 7.														
84		08:30:00	12301	5	32.0	76.200	241	49.8	24.0	181.467	764.512	1.910	100.0	0.000	0.000	1.910	43.580
85		09:00:00	12232	5	32.0	76.200	241	49.3	24.0	180.522	768.283	1.830	100.0	0.000	0.000	1.830	45.410
86			SALINITY = 1000 ppm, PH = 7.														
87		09:30:00	12307	5	31.0	76.200	227	48.8	25.0	175.581	771.992	2.070	100.0	0.000	0.000	2.070	47.480
88			TRANSFER FLUID TO 400 bbL TANK.														
89		10:00:00	12301	5	32.0	76.200	248	49.8	25.0	182.990	775.728	1.800	100.0	0.000	0.000	1.800	49.280
90			SALINITY = 1000 ppm, PH = 7, TRACE OF SAND.														
91		10:30:00	12287	5	34.0	76.200	248	49.8	24.0	183.303	779.543	1.910	100.0	0.000	0.000	1.910	51.190
92		11:00:00	12294	5	34.0	76.200	248	49.8	24.0	183.303	783.362	2.020	100.0	0.000	0.000	2.020	53.210
93		11:30:00	12301	5	33.0	76.200	248	48.8	5.0	187.619	787.226	1.700	100.0	0.000	0.000	1.700	54.910
94			TRANSFER FLUID TO 400 bbL TANK.														
95		12:00:00	12301	5	34.0	76.200	248	50.3	25.0	183.937	791.096	1.710	100.0	0.000	0.000	1.710	56.620
96			SALINITY = 1000 ppm, PH = 7, INCREASE CHOKE TO A 19.05 mm (48/64).														
97		12:30:00	10997	5	38.0	76.200	558	55.8	32.0	263.257	795.754	4.600	100.0	0.000	0.000	4.600	61.220
98		13:00:00	11135	5	40.0	76.200	552	57.8	32.0	266.775	801.276	4.180	100.0	0.000	0.000	4.180	65.400
99			TRANSFER FLUID TO 400 bbL TANK, SALINITY = 1000 ppm, PH = 7.														
100		13:30:00	11170	5	41.0	76.200	586	61.3	35.0	280.507	806.976	3.820	100.0	0.000	0.000	3.820	69.220
101		14:00:00	11239	5	42.0	76.200	620	61.8	34.0	289.064	812.909	4.010	100.0	0.000	0.000	4.010	73.230
102			TRANSFER FLUID TO 400 bbL TANK, SALINITY = 1000 ppm, PH = 7.														
103		14:30:00	11377	5	42.0	76.200	641	63.7	34.0	298.035	819.025	3.910	100.0	0.000	0.000	3.910	77.140
104		15:00:00	11377	5	42.0	76.200	655	64.2	34.0	302.043	825.276	3.820	100.0	0.000	0.000	3.820	80.960
105			TRANSFER FLUID TO 400 bbL TANK, SALINITY = 1000 ppm, PH = 7.														

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/28
Final Test Date: 2002/04/02

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT
Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
106	2002/03/29	15:30:00	11377	5	42.0	76.200	669	66.7	33.0	311.328	831.665	3.150	100.0	0.000	0.000	3.150	84.110
107		16:00:00	11432	5	42.0	76.200	689	66.7	32.0	315.899	838.199	2.980	100.0	0.000	0.000	2.980	87.090
108			SALINITY = 1000 ppm, PH = 7														
109		16:30:00	11459	5	40.0	76.200	689	68.0	32.0	318.900	844.811	3.230	100.0	0.000	0.000	3.230	90.320
110			TRANSFER FLUID TO 400 bbL TANK.														
111		17:00:00	11459	5	40.0	76.200	689	68.7	31.0	321.214	851.479	3.240	100.0	0.000	0.000	3.240	93.560
112			SALINITY = 1000 ppm, PH = 7														
113		17:30:00	11466	5	39.0	76.200	703	68.7	31.0	324.058	858.201	2.700	100.0	0.000	0.000	2.700	96.260
114		18:00:00	11487	5	39.0	76.000	710	69.2	31.0	324.279	864.954	2.700	100.0	0.000	0.000	2.700	98.960
115			TRANSFER FLUID TO 400 bbL TANK, SALINITY = 1000 ppm, PH = 7.														
116		18:30:00	11487	5	39.0	76.200	710	69.2	31.0	326.676	871.735	5.230	100.0	0.000	0.000	5.230	104.190
117		19:00:00	11487	5	38.0	76.200	717	68.2	28.0	327.385	878.548	1.270	100.0	0.000	0.000	1.270	105.460
118			SALINITY = 1000 ppm, PH = 7.														
119		19:30:00	11501	5	38.0	76.200	724	69.7	28.0	332.427	885.421	2.390	100.0	0.000	0.000	2.390	107.850
120		20:00:00	11528	5	38.0	76.200	717	70.0	28.0	331.611	892.338	2.680	100.0	0.000	0.000	2.680	110.530
121			SALINITY = 1000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
122		20:30:00	11528	5	38.0	76.200	696	70.2	28.0	327.903	899.208	2.780	100.0	0.000	0.000	2.780	113.310
123		21:00:00	11535	5	37.0	76.200	724	70.5	26.0	335.413	906.118	2.980	100.0	0.000	0.000	2.980	116.290
124			SALINITY = 1000 ppm, PH = 7.														
125		21:30:00	11528	5	37.0	76.200	745	69.7	26.0	337.833	913.131	2.350	100.0	0.000	0.000	2.350	118.640
126			TRANSFER FLUID TO 400 bbl TANK.														
127			11508	5	36.0	76.200	738	71.5	26.0			2.830	100.0				
128		22:00:00	SALINITY = 1000 ppm, PH = 7.														
129		22:30:00	11508	5	36.0	76.200	738	71.5	26.0	340.674	927.266	2.600	100.0	0.000	0.000	2.600	121.240
130		23:00:00	11508	5	36.0	76.200	745	70.7	25.0	340.890	934.366	2.540	100.0	0.000	0.000	2.540	123.780
131			SALINITY = 1000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
132		23:30:00	11508	5	36.0	76.200	745	72.0	26.0	343.317	941.493	2.660	100.0	0.000	0.000	2.660	126.440
133	2002/03/30	00:00:00	11508	5	36.0	76.200	745	72.0	27.0	342.716	948.639	2.310	100.0	0.000	0.000	2.310	128.750
134			SALINITY = 1000 ppm, PH = 7, INCREASE TO A 25.8 mm CHOKE.														
135		00:30:00	10949	5	36.0	76.200	952	83.7	28.0	412.400	956.505	2.940	100.0	0.000	0.000	2.940	131.690
136			TRANSFER FLUID TO 400 bbl TANK.														
137		01:00:00	10949	5	36.0	76.200	938	86.2	30.0	414.331	965.117	3.200	100.0	0.000	0.000	3.200	134.890
138		01:00:00	SALINITY = 1000 ppm, PH = 7.														
139		01:30:00	10949	5	36.0	76.200	938	86.2	31.0	413.609	973.741	2.870	100.0	0.000	0.000	2.870	137.760
140		02:00:00	10949	5	38.0	76.200	972	83.9	30.0	415.499	982.378	2.570	100.0	0.000	0.000	2.570	140.330

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FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT

Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
141	2002/03/30		SALINITY = 1000 ppm, PH = 7.														
142		02:30:00	10949	5	38.0	76.200	958	85.4	30.0	416.496	991.044	2.680	100.0	0.000	0.000	2.680	143.010
143			TRANSFER FLUID TO 400 bbl TANK.														
144		03:00:00	10949	5	37.0	76.200	945	87.7	30.0	419.404	999.752	2.790	100.0	0.000	0.000	2.790	145.800
145			SALINITY = 1000 ppm, PH = 7.														
146		03:30:00	10949	5	36.0	76.200	945	97.7	32.0	417.945	1008.474	2.870	100.0	0.000	0.000	2.870	148.670
147		04:00:00	10949	5	38.0	76.200	986	84.2	31.0	418.125	1017.183	2.580	100.0	0.000	0.000	2.580	151.250
148			SALINITY = 1000 ppm, PH = 7.														
149		04:30:00	10949	5	38.0	76.200	979	85.4	30.0	420.637	1025.920	2.530	100.0	0.000	0.000	2.530	153.780
150			TRANSFER FLUID TO 400 bbl TANK.														
151		05:00:00	10949	5	38.0	76.200	952	88.2	30.0	422.035	1034.698	2.570	100.0	0.000	0.000	2.570	156.350
152			SALINITY = 1000 ppm, PH = 7.														
153		05:30:00	10949	5	38.0	76.200	952	88.2	30.0	422.035	1043.490	2.470	100.0	0.000	0.000	2.470	158.820
154		06:00:00	10949	5	38.0	76.200	993	85.7	30.0	424.007	1052.303	2.500	100.0	0.000	0.000	2.500	161.320
155			SALINITY = 1000 ppm, PH = 7.														
156		06:30:00	10949	5	38.0	76.200	993	85.4	30.0	423.377	1061.130	2.500	100.0	0.000	0.000	2.500	163.820
157			TRANSFER FLUID TO 400 bbl TANK.														
158		07:00:00	10991	5	38.0	76.200	965	89.6	30.0	428.290	1070.002	2.640	100.0	0.000	0.000	2.640	166.460
159			SALINITY = 1000 ppm, PH = 7.														
160		07:30:00	10984	5	38.0	76.200	965	89.1	30.0	427.072	1078.912	2.370	100.0	0.000	0.000	2.370	168.830
161		08:00:00	10977	5	38.0	76.200	1000	85.7	30.0	425.373	1087.791	2.880	100.0	0.000	0.000	2.880	171.710
162			SALINITY = 1000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
163		08:30:00	10963	5	38.0	76.200	965	89.6	30.0	428.290	1096.684	2.090	100.0	0.000	0.000	2.090	173.800
164		09:00:00	10977	5	38.0	76.200	965	89.6	30.0	428.290	1105.607	2.930	100.0	0.000	0.000	2.930	176.730
165		09:30:00	10984	5	38.0	76.200	986	89.6	30.0	432.518	1114.573	2.690	100.0	0.000	0.000	2.690	179.420
166			TRANSFER FLUID TO 400 bbl TANK.														
167		10:00:00	10984	5	38.0	76.200	972	89.6	30.0	429.704	1123.555	2.550	100.0	0.000	0.000	2.550	181.970
168		10:30:00	10984	5	38.0	76.200	979	89.6	30.0	431.113	1132.522	2.280	100.0	0.000	0.000	2.280	184.250
169		11:00:00	10984	5	38.0	76.200	1000	87.7	30.0	430.371	1141.495	2.220	100.0	0.000	0.000	2.220	186.470
170			SALINITY = 1000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
171		11:30:00	10949	5	41.0	76.200	972	90.1	30.0	430.923	1150.467	2.570	100.0	0.000	0.000	2.570	189.040
172		12:00:00	10963	5	41.0	76.200	972	90.1	31.0	430.170	1159.437	2.260	100.0	0.000	0.000	2.260	191.300
173			SALINITY = 1000 ppm, PH = 7, INCREASE CHOKE TO A 50.80 mm.														
174		12:30:00	10687	5	42.0	76.200	1200	85.2	32.0	459.833	1168.708	2.500	100.0	0.000	0.000	2.500	193.800
175			SALINITY = 1000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														

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FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT
Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
176	2002/03/30	13:00:00	10666	5	42.0	76.200	1207	85.7	32.0	462.455	1178.315	2.740	100.0	0.000	0.000	2.740	196.540
177		13:30:00	10673	5	42.0	76.200	1207	85.7	32.0	462.455	1187.949	2.280	100.0	0.000	0.000	2.280	198.820
178		14:00:00	10687	5	42.0	76.200	1207	85.2	32.0	461.085	1197.570	2.500	100.0	0.000	0.000	2.500	201.320
179			SALINITY = 1000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
180		14:30:00	10673	5	42.0	76.200	1207	85.2	32.0	461.085	1207.176	2.640	100.0	0.000	0.000	2.640	203.960
181		15:00:00	10660	5	42.0	76.200	1207	85.2	32.0	461.085	1216.782	2.370	100.0	0.000	0.000	2.370	206.330
182			SALINITY = 1000 ppm, PH = 7, OPEN BYPASS ON LINEHEATHER.														
183		15:30:00	9660	5	42.0	76.200	1551	93.1	32.0	543.283	1227.244	2.500	100.0	0.000	0.000	2.500	208.830
184			TRANSFER FLUID TO 400 bbl TANK.														
185		16:00:00	9674	5	43.0	76.200	1551	94.1	32.0	546.198	1238.592	2.740		0.000	0.000	2.740	211.570
186			SALINITY = 1000 ppm, PH = 7.														
187		16:30:00	9653	5	41.0	76.200	1551	94.1	32.0	546.198	1249.972	2.470	100.0	0.000	0.000	2.470	214.040
188		17:00:00	9667	5	42.0	76.200	1586	93.4	32.0	549.845	1261.389	2.690	100.0	0.000	0.000	2.690	216.730
189			SALINITY = 1000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
190		17:30:00	9653	5	41.0	76.200	1565	94.1	32.0	548.556	1272.830	2.840	100.0	0.000	0.000	2.840	219.570
191		18:00:00	9660	5	41.0	76.200	1565	94.1	31.0	549.545	1284.269	2.660	100.0	0.000	0.000	2.660	222.230
192			SALINITY = 1000 ppm, PH = 7, H2S = 0 ppm.														
193		18:30:00	9667	5	41.0	76.200	1572	92.6	31.0	546.294	1295.684	2.400	100.0	0.000	0.000	2.400	224.630
194			TRANSFER FLUID TO 400 bbl TANK.														
195		19:00:00	9660	5	40.0	76.200	1572	94.4	31.0	551.462	1307.119	2.370	100.0	0.000	0.000	2.370	227.000
196			SALINITY = 8000 ppm, PH = 7.														
197		19:30:00	9660	5	40.0	76.200	1572	94.1	32.0	549.731	1318.590	2.840	100.0	0.000	0.000	2.840	229.840
198		20:00:00	9639	5	40.0	76.200	1579	93.6	32.0	549.421	1330.039	2.210	100.0	0.000	0.000	2.210	232.050
199			SALINITY = 11,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
200		20:30:00	9646	5	40.0	76.200	1572	93.9	31.0	549.982	1341.491	2.960	100.0	0.000	0.000	2.960	235.010
201		21:00:00	9646	5	40.0	76.200	1579	93.9	32.0	550.163	1352.951	2.380	100.0	0.000	0.000	2.380	237.390
202			SALINITY = 8000 ppm, PH = 7.														
203		21:30:00	9646	5	40.0	76.200	1579	93.4	32.0	548.708	1364.398	2.310	100.0	0.000	0.000	2.310	239.700
204			TRANSFER FLUID TO 400 bbl TANK.														
205		22:00:00	9646	5	40.0	76.200	1579	94.1	31.0	551.898	1375.862	2.690	100.0	0.000	0.000	2.690	242.390
206			SALINITY = 10,000 ppm, PH = 7.														
207		22:30:00	9646	5	39.0	76.200	1586	94.4	31.0	553.814	1387.380	2.470	100.0	0.000	0.000	2.470	244.860
208		23:00:00	9646	5	40.0	76.200	1579	93.1	31.0	548.953	1398.867	2.310	100.0	0.000	0.000	2.310	247.170
209			SALINITY = 9000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
210		23:30:00	9646	5	40.0	76.200	1586	94.1	31.0	553.071	1410.347	2.700	100.0	0.000	0.000	2.700	249.870

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Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
211	2002/03/30	00:00:00	9669	5	40.0	76.200	1586	94.1	31.0	553.071	1421.869	2.560	100.0	0.000	0.000	2.560	252.430
212			SALINITY = 10,000 ppm, PH = 7.														
213		00:30:00	9653	5	38.0	76.200	1579	93.1	31.0	548.953	1433.348	2.120	100.0	0.000	0.000	2.120	254.550
214			TRANSFER FLUID TO 400 bbl TANK.														
215		01:00:00	9653	5	38.0	76.200	1579	94.4	32.0	551.644	1444.813	2.600	100.0	0.000	0.000	2.600	257.150
216			SALINITY = 9000 ppm, PH = 7.														
217		01:30:00	9653	5	38.0	76.200	1579	94.4	32.0	551.644	1456.306	2.470	100.0	0.000	0.000	2.470	259.620
218		02:00:00	9653	5	38.0	76.200	1579	93.1	32.0	547.964	1467.760	2.210	100.0	0.000	0.000	2.210	261.830
219			SALINITY = 9000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
220		02:30:00	9646	5	38.0	76.200	1586	94.4	32.0	552.816	1478.226	2.760	100.0	0.000	0.000	2.760	264.590
221		03:00:00	9646	5	38.0	76.200	1572	93.6	30.0	550.235	1490.716	2.560	100.0	0.000	0.000	2.560	267.150
222			SALINITY = 9000 ppm, PH = 7.														
223		03:30:00	9646	5	38.0	76.200	1572	93.4	31.0	548.527	1502.162	2.210	100.0	0.000	0.000	2.210	269.360
224			TRANSFER FLUID TO 400 bbl TANK.														
225		04:00:00	9646	5	38.0	76.200	1565	93.6	31.0	548.066	1513.585	2.640	100.0	0.000	0.000	2.640	272.000
226			SALINITY = 10,000 ppm, PH = 7.														
227		04:30:00	9646	5	38.0	76.200	1558	93.6	31.0	546.889	1524.991	2.540	100.0	0.000	0.000	2.540	274.540
228		05:00:00	9646	5	38.0	76.200	1558	93.1	31.0	545.438	1536.369	2.120	100.0	0.000	0.000	2.120	276.660
229			SALINITY = 9000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
230		05:30:00	9660	5	38.0	76.200	1558	93.4	31.0	546.179	1547.740	2.500	100.0	0.000	0.000	2.500	279.160
231		06:00:00	9653	5	38.0	76.200	1558	93.4	31.0	546.179	1559.119	2.470	100.0	0.000	0.000	2.470	281.630
232			SALINITY = 11,000 ppm, PH = 7.														
233		06:30:00	9653	5	38.0	76.200	1565	93.4	31.0	547.354	1570.510	2.020	100.0	0.000	0.000	2.020	283.650
234			TRANSFER FLUID TO 400 bbl TANK.														
235		07:00:00	9660	5	36.0	76.200	1565	94.1	31.0	549.545	1581.936	2.490	100.0	0.000	0.000	2.490	286.140
236		07:30:00	9660	5	37.0	76.200	1565	94.1	31.0	549.545	1593.385	2.470	100.0	0.000	0.000	2.470	288.610
237		08:00:00	9660	5	38.0	76.200	1565	94.1	31.0	549.545	1604.833	2.120	100.0	0.000	0.000	2.120	290.730
238			SALINITY = 11,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
239		08:30:00	9660	5	37.0	76.200	1565	94.4	31.0	550.283	1616.290	2.270	100.0	0.000	0.000	2.270	293.000
240		09:00:00	9653	5	37.0	76.200	1565	94.4	31.0	550.283	1627.754	2.460	100.0	0.000	0.000	2.460	295.460
241		09:30:00	9646	5	37.0	76.200	1565	94.6	31.0	551.020	1639.226	1.830	100.0	0.000	0.000	1.830	297.290
242			SALINITY = 11,000 ppm, PH = 7.														
243		10:00:00	9653	5	38.0	76.200	1565	95.1	30.0	553.492	1650.731	2.370	100.0	0.000	0.000	2.370	299.660
244		10:30:00	9639	5	38.0	76.200	1565	95.1	30.0	553.492	1662.262	2.360	100.0	0.000	0.000	2.360	302.020
245		11:00:00	9632	5	38.0	76.200	1565	95.1	30.0	553.492	1673.794	2.120	100.0	0.000	0.000	2.120	304.140

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FieldNotes
Field Measurements

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Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
246	2002/03/30		SALINITY = 11,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
247		11:30:00	9625	5	39.0	76.200	1572	95.1	31.0	553.676	1685.327	2.380	100.0	0.000	0.000	2.380	306.520
248		12:00:00	9632	5	39.0	76.200	1572	95.1	31.0	553.676	1696.861	2.260	100.0	0.000	0.000	2.260	308.780
249			SALINITY = 11,000 ppm, PH = 7.														
250		12:30:00	9612	5	38.0	76.200	1572	95.1	31.0	553.676	1708.396	2.020	100.0	0.000	0.000	2.020	310.800
251			TRANSFER FLUID TO 400 bbl TANK.														
252		13:00:00	9618	5	38.0	76.200	1572	95.1	31.0	553.676	1719.931	2.570	100.0	0.000	0.000	2.570	313.370
253			SALINITY = 11,000 ppm, PH = 7.														
254		13:30:00	9611	5	39.0	76.200	1579	95.1	31.0	554.858	1731.479	2.360	100.0	0.000	0.000	2.360	315.730
255		14:00:00	9611	5	40.0	76.200	1579	95.1	31.0	554.858	1743.038	2.020	100.0	0.000	0.000	2.020	317.750
256			SALINITY = 11,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
257		14:30:00	9646	5	40.0	76.200	1586	95.1	31.0	556.037	1754.610	2.300	100.0	0.000	0.000	2.300	320.050
258		15:00:00	9687	5	40.0	76.200	1586	95.1	31.0	556.037	1766.194	2.250	100.0	0.000	0.000	2.250	322.300
259			SALINITY = 11,000 ppm, PH = 7.														
260		15:30:00	9687	5	40.0	76.200	1586	95.6	32.0	556.509	1777.783	2.310	100.0	0.000	0.000	2.310	324.610
261		15:45:00										0.860	100.0	0.000	0.000	0.860	325.470
262			TRANSFER FLUID TO 400 bbl TANK.														
263		16:00:00	9687	5	40.0	76.200	1586	95.6	32.0	556.509	1789.377	1.040	100.0	0.000	0.000	1.040	326.510
264			SALINITY = 11,000 ppm, PH = 7.														
265		16:30:00	9687	5	38.0	76.200	1586	95.6	31.0	557.514	1800.981	2.560	100.0	0.000	0.000	2.560	329.070
266		17:00:00	9687	5	38.0	76.200	1586	95.6	30.0	558.525	1812.607	2.200	100.0	0.000	0.000	2.200	331.270
267			SALINITY = 11,000 ppm, PH = 7.														
268		17:30:00	9687	5	38.0	76.200	1586	95.6	30.0	558.525	1824.243	1.920	100.0	0.000	0.000	1.920	333.190
269			TRANSFER FLUID TO 400 bbl TANK.														
270		18:00:00	9687	5	38.0	76.200	1586	95.6	31.0	557.514	1835.868	2.380	100.0	0.000	0.000	2.380	335.570
271			SALINITY = 11,000 ppm, PH = 7.														
272		18:30:00	9687	5	38.0	76.200	1586	94.6	31.0	554.556	1847.452	1.780	100.0	0.000	0.000	1.780	337.350
273		19:00:00	9687	5	38.0	76.200	1586	94.6	31.0	554.556	1859.005	2.790	100.0	0.000	0.000	2.790	340.140
274			SALINITY = 11,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
275		19:30:00	9694	5	38.0	76.200	1586	94.6	31.0	554.556	1870.559	2.310	100.0	0.000	0.000	2.310	342.450
276		20:00:00	9687	5	38.0	76.200	1586	94.6	31.0	554.556	1882.112	2.340	100.0	0.000	0.000	2.340	344.790
277			SALINITY = 9000 ppm, PH = 7.														
278		20:30:00	9687	5	38.0	76.200	1586	94.6	30.0	555.562	1893.676	1.730	100.0	0.000	0.000	1.730	346.520
279		21:00:00	9687	5	38.0	76.200	1586	94.6	31.0	554.556	1905.239	2.490	100.0	0.000	0.000	2.490	349.010
280			SALINITY = 10,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/28
Final Test Date: 2002/04/02

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT
Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
281	2002/03/30	21:30:00	9694	5	38.0	76.200	1593	95.6	31.0	558.695	1916.836	2.520	100.0	0.000	0.000	2.520	351.530
282		22:00:00	9694	5	38.0	76.200	1593	95.6	31.0	558.695	1928.475	2.070	100.0	0.000	0.000	2.070	353.600
283			SALINITY = 10,000 ppm, PH = 7.														
284		22:30:00	9694	5	38.0	76.200	1593	95.6	30.0	559.708	1940.125	2.210	100.0	0.000	0.000	2.210	355.810
285		23:00:00	9694	5	38.0	76.200	1593	95.6	30.0	559.708	1951.786	2.100	100.0	0.000	0.000	2.100	357.910
286			SALINITY = 10,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
287		23:30:00	9694	5	38.0	76.200	1593	95.6	31.0	558.695	1963.436	2.260	100.0	0.000	0.000	2.260	360.170
288	2002/04/01	00:00:00	9694	5	38.0	76.200	1593	95.6	31.0	558.695	1975.075	2.250	100.0	0.000	0.000	2.250	362.420
289			SALINITY = 10,000 ppm, PH = 7.														
290		00:30:00	9694	5	38.0	76.200	1593	95.6	31.0	558.695	1986.715	2.210	100.0	0.000	0.000	2.210	364.630
291		01:00:00	9694	5	38.0	76.200	1613	93.6	31.0	556.077	1998.327	2.000	100.0	0.000	0.000	2.000	366.630
292			SALINITY = 10,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
293		01:30:00	9694	5	38.0	76.200	1593	95.6	31.0	558.695	2009.939	2.260	100.0	0.000	0.000	2.260	368.890
294		02:00:00	9694	5	38.0	76.200	1593	95.6	31.0	558.695	2021.579	2.160	100.0	0.000	0.000	2.160	371.050
295			SALINITY = 10,000 ppm, PH = 7.														
296		02:30:00	9694	5	38.0	76.200	1607	95.6	31.0	561.049	2033.243	2.120	100.0	0.000	0.000	2.120	373.170
297		03:00:00	9694	5	38.0	76.200	1620	93.6	31.0	557.236	2044.891	1.910	100.0	0.000	0.000	1.910	375.080
298			SALINITY = 10,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
299		03:30:00	9694	5	38.0	76.200	1607	95.6	31.0	561.049	2056.540	2.430	100.0	0.000	0.000	2.430	377.510
300		04:00:00	9694	5	38.0	76.200	1607	95.6	31.0	561.049	2068.229	1.970	100.0	0.000	0.000	1.970	379.480
301			SALINITY = 10,000 ppm, PH = 7.														
302		04:30:00	9694	5	38.0	76.200	1607	95.6	31.0	561.049	2079.917	2.120	100.0	0.000	0.000	2.120	381.600
303		05:00:00	9694	5	38.0	76.200	1620	93.1	31.0	555.759	2091.551	1.820	100.0	0.000	0.000	1.820	383.420
304			SALINITY = 10,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
305		05:30:00	9687	5	38.0	76.200	1607	95.6	31.0	561.049	2103.184	2.420	100.0	0.000	0.000	2.420	385.840
306		06:00:00	9687	5	38.0	76.200	1607	95.6	31.0	561.049	2114.873	2.070	100.0	0.000	0.000	2.070	387.910
307			SALINITY = 10,000 ppm, PH = 7.														
308		06:30:00	9687	5	38.0	76.200	1607	95.6	31.0	561.049	2126.561	1.750		0.000	0.000	1.750	389.660
309		07:00:00	9687	5	38.0	76.200	1620	95.1	31.0	561.735	2138.257	1.800	100.0	0.000	0.000	1.800	391.460
310			SALINITY = 10,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
311		07:30:00	9680	5	39.0	76.200	1606	96.6	31.0	563.841	2149.982	2.470	100.0	0.000	0.000	2.470	393.930
312		08:00:00	9653	5	40.0	76.200	1606	98.6	31.0	563.841	2161.728	1.780	100.0	0.000	0.000	1.780	395.710
313			SALINITY = 10,000 ppm, PH = 7.														
314		08:30:00	9646	5	40.0	76.200	1606	96.6	30.0	564.835	2173.485	2.120	100.0	0.000	0.000	2.120	397.830
315		09:00:00	9653	5	40.0	76.200	1606	96.9	30.0	565.574	2185.260	1.820	100.0	0.000	0.000	1.820	399.650

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/28
Final Test Date: 2002/04/02

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT

Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
		yyyy/mm/dd hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
316	2002/04/01		SALINITY = 10,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
317		09:30:00	9632	5	40.0	76.200	1606	96.9	30.0	565.574	2197.043	2.020	100.0	0.000	0.000	2.020	401.670
318		10:00:00	9632	5	40.0	76.200	1606	96.9	30.0	565.574	2208.826	2.050	100.0	0.000	0.000	2.050	403.720
319			SALINITY = 10,000 ppm, PH = 7.														
320		10:30:00	9632	5	40.0	76.200	1606	96.9	30.0	565.574	2220.609	1.730	100.0	0.000	0.000	1.730	405.450
321		11:00:00	9632	5	40.0	76.200	1606	96.9	31.0	564.550	2232.381	1.830	100.0	0.000	0.000	1.830	407.280
322			SALINITY = 10,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
323		11:30:00	9632	5	40.0	76.200	1603	96.9	31.0	564.550	2244.142	2.380	100.0	0.000	0.000	2.380	409.660
324		12:00:00	9632	5	40.0	76.200	1606	96.9	31.0	564.550	2255.904	2.120	100.0	0.000	0.000	2.120	411.780
325			SALINITY = 10,000 ppm, PH = 7.														
326		12:30:00	9605	5	40.0	76.200	1606	96.9	30.0	565.574	2267.676	1.300	100.0	0.000	0.000	1.300	413.080
327		13:00:00	9612	5	41.0	76.200	1606	96.9	30.0	565.574	2279.459	2.020	100.0	0.000	0.000	2.020	415.100
328			SALINITY = 10,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
329		13:30:00	9609	5	41.0	76.200	1620	96.9	30.0	567.940	2291.266	1.750	100.0	0.000	0.000	1.750	416.850
330		14:00:00	9609	5	42.0	76.200	1620	96.9	30.0	567.940	2303.098	1.850	100.0	0.000	0.000	1.850	418.700
331			SALINITY = 10,000 ppm, PH = 7.														
332		14:30:00	9598	5	44.0	76.200	1620	96.9	28.0	570.019	2314.952	1.720	100.0	0.000	0.000	1.720	420.420
333		15:00:00	9591	5	45.0	76.200	1620	96.9	28.0	570.019	2326.827	1.830	100.0	0.000	0.000	1.830	422.250
334			SALINITY = 10,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
335		15:30:00	9598	5	44.0	76.200	1620	96.9	28.0	570.019	2338.703	1.750	100.0	0.000	0.000	1.750	424.000
336		16:00:00	9570	5	46.0	76.200	1620	96.9	30.0	567.940	2350.557	1.190	100.0	0.000	0.000	1.190	425.190
337		16:00:00															
338		16:30:00	9591	5	43.0	76.200	1620	96.9	28.0	570.019	2362.410	2.090	100.0	0.000	0.000	2.090	427.280
339		17:00:00	9591	5	42.0	76.200	1620	96.9	28.0	570.019	2374.286	1.830	100.0	0.000	0.000	1.830	429.110
340			SALINITY = 10,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
341		17:30:00	9591	5	44.0	76.200	1634	96.9	30.0	570.298	2386.164	2.130	100.0	0.000	0.000	2.130	431.240
342		18:00:00	9591	5	46.0	76.200	1634	96.9	30.0	570.298	2398.045	1.920	100.0	0.000	0.000	1.920	433.160
343			SALINITY = 10,000 ppm, PH = 7.														
344		18:30:00	9591	5	45.0	76.200	1634	96.9	30.0	570.298	2409.926	1.590	100.0	0.000	0.000	1.590	434.750
345		19:00:00	9577	5	42.0	76.200	1634	97.6	30.0	572.528	2421.831	1.770	100.0	0.000	0.000	1.770	436.520
346			SALINITY = 10,000 ppm, PH = 7.														
347		19:30:00	9577	5	42.0	76.200	1637	97.6	30.0	573.034	2433.764	1.730	100.0	0.000	0.000	1.730	438.250
348		20:00:00	9591	5	42.0	76.200	1637	97.1	30.0	571.547	2445.686	1.450	100.0	0.000	0.000	1.450	439.700
349			SALINITY = 10,000 ppm, PH = 7.														
350		20:30:00	9598	5	42.0	76.200	1637	95.6	30.0	567.093	2457.547	1.620	100.0	0.000	0.000	1.620	441.320

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/28
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FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT
Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
		yyyy/mm/dd hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
351	2002/04/01		TRANSFER FLUID TO 400 bbl TANK.														
352		21:00:00	9598	5	42.0	76.200	1634	97.9	30.0	573.270	2469.426	2.000	100.0	0.000	0.000	2.000	443.320
353			SALINITY = 10,000 ppm, PH = 7.														
354		21:30:00	9598	5	42.0	76.200	1641	97.9	30.0	574.451	2481.382	1.760	100.0	0.000	0.000	1.760	445.080
355		22:00:00	9598	5	42.0	76.200	1641	97.9	30.0	574.451	2493.349	2.010	100.0	0.000	0.000	2.010	447.090
356			SALINITY = 10,000 ppm, PH = 7.														
357		22:30:00	9598	5	42.0	76.200	1641	98.1	30.0	575.193	2505.325	1.210	100.0	0.000	0.000	1.210	448.300
358		23:00:00	9598	5	42.0	76.200	1648	97.9	30.0	575.630	2517.312	1.520	100.0	0.000	0.000	1.520	449.820
359			SALINITY = 10,000 ppm, PH = 7.														
360		23:30:00	9598	5	42.0	76.200	1648	97.9	30.0	575.630	2529.305	2.020	100.0	0.000	0.000	2.020	451.840
361			TRANSFER FLUID TO 400 bbl TANK.														
362	2002/04/02	00:00:00	9598	5	42.0	76.200	1648	97.9	30.0	575.630	2541.297	1.730	100.0	0.000	0.000	1.730	453.570
363			SALINITY = 10,000 ppm, PH = 7.														
364		00:30:00	9598	5	42.0	76.200	1641	97.6	30.0	573.708	2553.269	1.850	100.0	0.000	0.000	1.850	455.420
365		01:00:00	9598	5	41.0	76.200	1641	97.6	30.0	573.708	2565.222	2.170	100.0	0.000	0.000	2.170	457.590
366			SALINITY = 10,000 ppm, PH = 7.														
367		01:30:00	9598	5	41.0	76.200	1648	97.9	29.0	576.682	2577.205	1.200	100.0	0.000	0.000	1.200	458.790
368		02:00:00	9591	5	40.0	76.200	1648	97.9	29.0	576.682	2589.219	1.240	100.0	0.000	0.000	1.240	460.030
369			SALINITY = 10,000 ppm, PH = 7.														
370		02:30:00	9591	5	40.0	76.200	1641	97.9	29.0	575.500	2601.221	1.250	100.0	0.000	0.000	1.250	461.280
371			TRANSFER FLUID TO 400 bbl TANK.														
372		03:00:00	9591	5	41.0	76.200	1634	97.6	29.0	573.573	2613.190	1.060	100.0	0.000	0.000	1.060	462.340
373			SALINITY = 10,000 ppm, PH = 7.														
374		03:30:00	9591	5	40.0	76.200	1634	97.9	29.0	574.316	2625.148	1.160	100.0	0.000	0.000	1.160	463.500
375		04:00:00	9598	5	41.0	76.200	1634	97.9	29.0	574.316	2637.113	1.230	100.0	0.000	0.000	1.230	464.730
376			SALINITY = 10,000 ppm, PH = 7.														
377		04:30:00	9598	5	40.0	76.200	1634	97.9	29.0	574.316	2649.078	1.270	100.0	0.000	0.000	1.270	466.000
378		05:00:00	9591	5	40.0	76.200	1634	97.9	29.0	574.316	2661.042	1.170	100.0	0.000	0.000	1.170	467.170
379			SALINITY = 10,000 ppm, PH = 7.														
380		05:30:00	9591	5	40.0	76.200	1634	98.6	29.0	576.510	2673.030	1.310	100.0	0.000	0.000	1.310	468.480
381		06:00:00	9591	5	40.0	76.200	1634	98.6	29.0	576.510	2685.041	0.860	100.0	0.000	0.000	0.860	469.340
382			SALINITY = 10,000 ppm, PH = 7.														
383		06:30:00	9584	5	38.0	76.200	1641	98.3	29.0	576.957	2697.056	1.440	100.0	0.000	0.000	1.440	470.780
384		07:00:00	9584	5	38.0	76.200	1641	98.9	28.0	573.567	2709.041	1.350	100.0	0.000	0.000	1.350	472.130
385			SALINITY = 10,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/28
Final Test Date: 2002/04/02

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT
Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
386	2002/04/02	07:30:00	9577	5	38.0	76.200	1641	96.9	27.0	574.624	2721.001	1.640	100.0	0.000	0.000	1.640	473.770
387		08:00:00	9570	5	38.0	76.200	1641	97.6	28.0	575.810	2732.985	1.940	100.0	0.000	0.000	1.940	475.710
388			SALINITY = 10,000 ppm, PH = 7.														
389		08:30:00	9556	5	38.0	76.200	1641	97.6	28.0	575.810	2744.981	1.370	100.0	0.000	0.000	1.370	477.080
390		09:00:00	9556	5	38.0	76.200	1641	97.6	28.0	575.810	2756.977	1.370	100.0	0.000	0.000	1.370	478.450
391			SALINITY = 10,000 ppm, PH = 7.														
392		09:30:00	9543	5	40.0	76.200	1641	97.6	28.0	575.810	2768.973	1.510	100.0	0.000	0.000	1.510	479.960
393		10:00:00	9543	5	40.0	76.200	1648	97.6	28.0	576.993	2780.981	1.350	100.0	0.000	0.000	1.350	481.310
394			SALINITY = 10,000 ppm, PH = 7.														
395		10:30:00	9543	5	40.0	76.200	1648	97.6	28.0	576.993	2793.002	1.500	100.0	0.000	0.000	1.500	482.810
396		11:00:00	9543	5	41.0	76.200	1655	96.6	28.0	575.170	2805.004	1.470	100.0	0.000	0.000	1.470	484.280
397			SALINITY = 10,000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
398		11:30:00	9536	5	41.0	76.200	1641	98.6	28.0	578.758	2817.024	1.280	100.0	0.000	0.000	1.280	485.560
399		12:00:00	9536	5	41.0	76.200	1634	98.8	27.0	579.372	2829.088	1.430	100.0	0.000	0.000	1.430	486.990
400			SALINITY = 10,000 ppm, PH = 7														
401			SHUT IN AT WING VALVE, RECORD PRESSURE BUILDUPS														
402		12:00:00				0.000	0	0.0	0.0	0.000	2829.088	0.000	0.0				
403		12:05:00	13969														
404		12:10:00	14024														
405		12:15:00	14066														
406		12:30:00	14135														
407		12:45:00	14178														
408		13:00:00	14279														
409		13:30:00	14231														
410		14:00:00	14231														
411		14:30:00	14231														
412		15:00:00	14231														
413		15:30:00	14231														
414		16:00:00	14231														
415		16:30:00	14231														
416		17:00:00	14231														
417		17:30:00	14231														
418			END OF BUILDUPS														
419			SHUT IN MASTER VALVE, SECURE WELL AND RIG OUT TEST EQUIPMENT														
420		16:00:00	0	0	0.0	0.000	0	0.0	0.0	0.000	2829.088	0.000	0.0	0.000	0.000	0.000	486.990

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/28
Final Test Date: 2002/04/02

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT

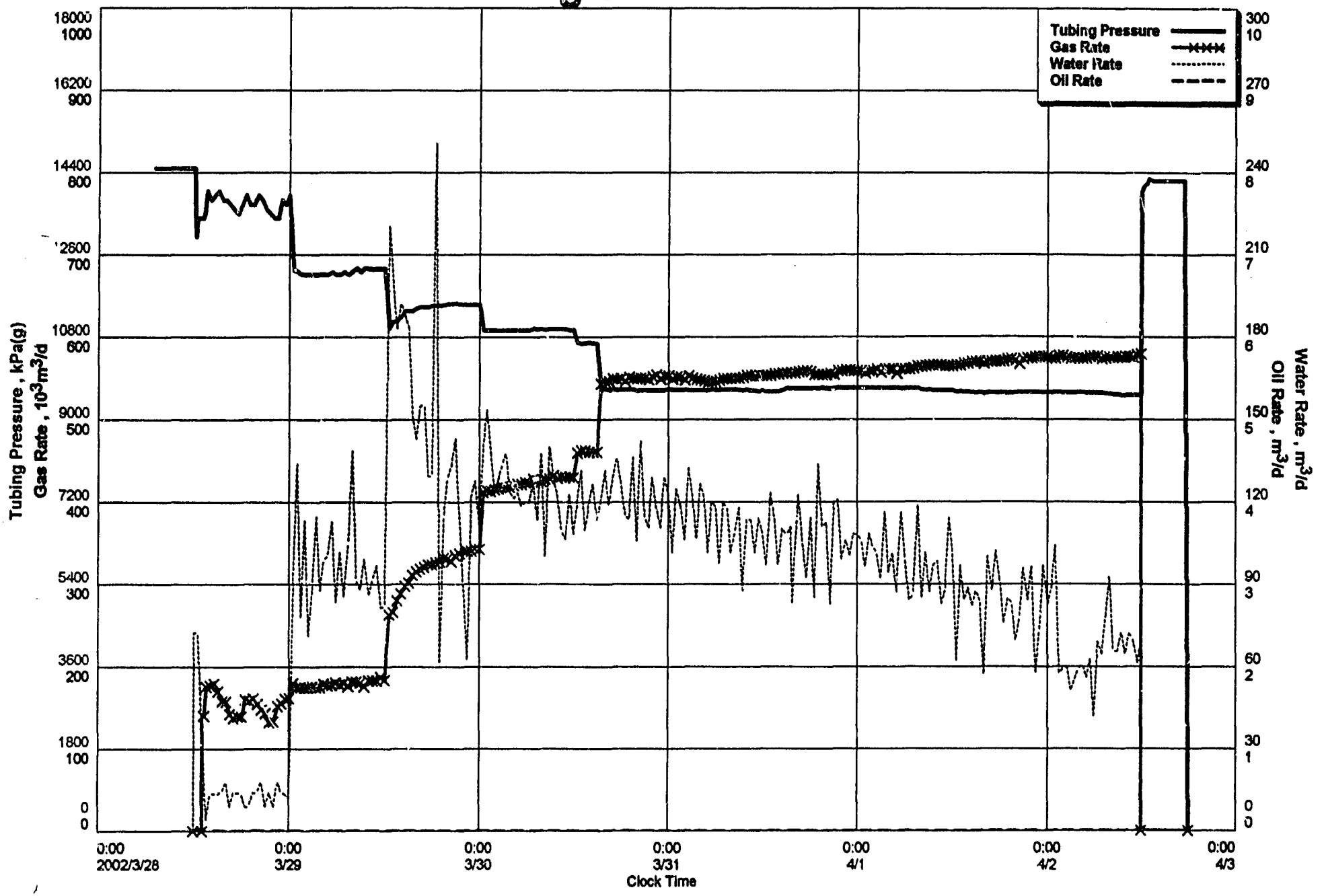
Job Number: 1289

Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/28
Final Test Date: 2002/04/02

ANADARKO NETLA 'A'
Formation: SLAVE POINT
Job Number: 1289

Single Point Test



Company: ANADARKO CANADA ENERGY LTD.
Well name: ANADARKO NETLA A-68
Location: A-68
Date of test: 03/27/02 TO 06/30/02
Test by RAPID WIRELINE SERVICES LTD.
Interp. by P.D.Q. Services Ltd.

Subsurface Pressure Measurements

Company: ANADARKO CANADA ENERGY LTD.
Address: CALGARY, ALBERTA
Field & Pool: NETLA / SLAVE POINT
Type of test: SINGLE POINT
Prod. Int KB: 2024.0 to 2078.0
Elev. (CF) 649.3 (KB) 654.01
Pool datum:

Tubing pres:
Shut in time: 04/02/02 12:00 HRS
Temperature at run depth: 104.415
Deviated well: N

Well name: ANADARKO NETLA A-68
Location: A-68
Status: GAS
Date of test: 03/27/02 TO 06/30/02
Prod. through: 88.9MM TUBING
Mid-point prod.int. KB: 2051
Datum depth of well KB:

Casing pres:
Duration of Shut in: 2132.0667 HRS
On/off btm: 03/27/02 / 06/30/02
Depths corrected to TVD: Y

Note: All units in metric, depth in meters kb; pressure in kPaa

TOP RECORDER

Element serial#: 9471
Pressure Range: 41369 KPAA
CAL-SCAN ELECTRONIC RECORDER
Latest calibration: 03/13/02
Reading Interval: 30 SECONDS
Gauge started: 03/27/02 11:38
Gauge stopped: 06/30/02 08:32
Run depth (KB): 2021.2

BOTTOM RECORDER

Element serial#: 9472
Pressure range: 41369 KPAA
CAL-SCAN ELECTRONIC RECORDER
Latest calibration: 03/13/02
Reading Interval: 30 SECONDS
Gauge started: 03/27/02 11:38
Gauge stopped: 06/30/02 08:32
Run depth (KB): 2021.7

TOP RECORDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
	03/27/2002	12:49:00	ON BOTTOM		
3/27/2002 12:49:00	0.0000	0.0000	73.349	16754.55	
3/27/2002 16:49:00	4.0000	4.0000	86.908	16977.11	
3/27/2002 20:49:00	8.0000	8.0000	89.129	17000.12	
3/28/2002 00:49:00	12.0000	12.0000	90.521	17011.55	
3/28/2002 04:49:00	16.0000	16.0000	91.487	17019.37	
3/28/2002 08:49:00	20.0000	20.0000	92.170	17024.99	
3/28/2002 12:01:30	23.2083	23.2083	92.579	17028.91	
	03/28/2002	12:01:30	OPENED WELL TO FLOW		
3/28/2002 12:01:30	23.2083	0.0000	92.579	17028.91	
3/28/2002 15:09:00	26.3333	3.1250	86.351	16882.46	
3/29/2002 03:09:00	38.3333	15.1250	81.374	16817.53	
3/29/2002 15:09:00	50.3333	27.1250	78.432	16652.58	
3/30/2002 03:09:00	62.3333	39.1250	80.683	16475.11	
3/30/2002 15:09:00	74.3333	51.1250	82.644	16373.03	
3/31/2002 03:09:00	86.3333	63.1250	84.316	16170.96	
3/31/2002 15:09:00	98.3333	75.1250	85.908	16190.92	
4/1/2002 03:09:00	110.3333	87.1250	87.063	16155.79	
4/1/2002 15:09:00	122.3333	99.1250	88.536	16119.98	
4/2/2002 03:09:00	134.3333	111.1250	89.788	16084.63	
[redacted]/2002 12:00:00	143.1833	119.9750	90.524	16061.12	
	04/02/2002	12:00:00	SHUT WELL IN FOR BUILD UP		
4/2/2002 12:00:00	143.1833	0.0000	90.524	16061.12	

Company: ANADARKO CANADA ENERGY LTD.
Date of test: 03/27/02 TO 06/30/02
Element serial#: 9471

Well name: ANADARKO NETLA A-68
Location: A-68
Run Depth (KB): 2021.2

TOP RECORDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
4/2/2002 12:44:30	143.9250	0.7417	91.866	16562.46	
4/2/2002 15:09:00	146.3333	3.1500	93.709	16681.41	
4/3/2002 03:09:00	158.3333	15.1500	95.755	16769.67	
4/3/2002 15:09:00	170.3333	27.1500	96.670	16798.91	
4/4/2002 03:09:00	182.3333	39.1500	97.259	16816.21	
4/4/2002 15:09:00	194.3333	51.1500	97.714	16829.82	
4/5/2002 03:09:00	206.3333	63.1500	98.086	16840.96	
4/5/2002 15:09:00	218.3333	75.1500	98.409	16850.67	
4/6/2002 03:09:00	230.3333	87.1500	98.685	16858.73	
4/6/2002 15:09:00	242.3333	99.1500	98.933	16866.07	
4/7/2002 03:09:00	254.3333	111.1500	99.158	16873.13	
4/7/2002 15:09:00	266.3333	123.1500	99.373	16879.44	
4/8/2002 03:09:00	278.3333	135.1500	99.558	16884.71	
4/8/2002 15:09:00	290.3333	147.1500	99.734	16889.91	
4/9/2002 03:09:00	302.3333	159.1500	99.896	16894.66	
4/9/2002 15:09:00	314.3333	171.1500	100.045	16898.91	
4/10/2002 03:09:00	326.3333	183.1500	100.188	16902.91	
4/10/2002 15:09:00	338.3333	195.1500	100.323	16906.43	
4/11/2002 03:09:00	350.3333	207.1500	100.442	16909.52	
4/11/2002 15:09:00	362.3333	219.1500	100.568	16912.61	
4/12/2002 03:09:00	374.3333	231.1500	100.677	16915.18	
4/12/2002 15:09:00	386.3333	243.1500	100.787	16917.74	
4/13/2002 03:09:00	398.3333	255.1500	100.889	16920.00	
4/13/2002 15:09:00	410.3333	267.1500	100.989	16922.26	
4/14/2002 03:09:00	422.3333	279.1500	101.082	16924.08	
4/14/2002 15:09:00	434.3333	291.1500	101.176	16926.10	
4/15/2002 03:09:00	446.3333	303.1500	101.260	16927.75	
4/15/2002 15:09:00	458.3333	315.1500	101.340	16929.39	
4/16/2002 03:09:00	470.3333	327.1500	101.422	16930.83	
4/16/2002 15:09:00	482.3333	339.1500	101.494	16932.05	
4/17/2002 03:09:00	494.3333	351.1500	101.573	16933.48	
4/17/2002 15:09:00	506.3333	363.1500	101.645	16934.77	
4/18/2002 03:09:00	518.3333	375.1500	101.709	16935.76	
4/18/2002 15:09:00	530.3333	387.1500	101.774	16936.98	
4/19/2002 03:09:00	542.3333	399.1500	101.841	16938.12	
4/19/2002 15:09:00	554.3333	411.1500	101.901	16938.89	
4/20/2002 03:09:00	566.3333	423.1500	101.960	16939.78	
4/20/2002 15:09:00	578.3333	435.1500	102.015	16940.66	
4/21/2002 03:09:00	590.3333	447.1500	102.075	16941.58	
4/21/2002 15:09:00	602.3333	459.1500	102.130	16942.44	
4/22/2002 03:09:00	614.3333	471.1500	102.182	16943.27	
4/22/2002 15:09:00	626.3333	483.1500	102.234	16944.03	
4/23/2002 03:09:00	638.3333	495.1500	102.284	16944.86	
4/23/2002 15:09:00	650.3333	507.1500	102.332	16945.34	
4/24/2002 03:09:00	662.3333	519.1500	102.378	16946.00	
4/24/2002 15:09:00	674.3333	531.1500	102.420	16946.48	
4/25/2002 03:09:00	686.3333	543.1500	102.467	16947.33	

Company: ANADARKO CANADA ENERGY LTD. Well name: ANADARKO NETLA A-68
Date of test: 03/27/02 TO 06/30/02 Location: A-68
Element serial#: 9471 Run Depth (KB): 2021.2

TOP RECORDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
4/25/2002 15:09:00	698.3333	555.1500	102.506	16947.97	
4/26/2002 03:09:00	710.3333	567.1500	102.546	16948.29	
4/26/2002 15:09:00	722.3333	579.1500	102.591	16948.90	
4/27/2002 03:09:00	734.3333	591.1500	102.629	16949.37	
4/27/2002 15:09:00	746.3333	603.1500	102.668	16950.06	
4/28/2002 03:09:00	758.3333	615.1500	102.706	16950.58	
4/28/2002 15:09:00	770.3333	627.1500	102.742	16951.04	
4/29/2002 03:09:00	782.3333	639.1500	102.781	16951.65	
4/29/2002 15:09:00	794.3333	651.1500	102.811	16951.66	
4/30/2002 03:09:00	806.3333	663.1500	102.843	16952.13	
4/30/2002 15:09:00	818.3333	675.1500	102.878	16952.80	
5/1/2002 03:09:00	830.3333	687.1500	102.914	16953.29	
5/1/2002 15:09:00	842.3333	699.1500	102.944	16953.53	
5/2/2002 03:09:00	854.3333	711.1500	102.972	16953.90	
5/2/2002 15:09:00	866.3333	723.1500	103.009	16954.45	
5/3/2002 03:09:00	878.3333	735.1500	103.036	16955.00	
5/3/2002 15:09:00	890.3333	747.1500	103.067	16955.57	
5/4/2002 03:09:00	902.3333	759.1500	103.094	16955.77	
5/4/2002 15:09:00	914.3333	771.1500	103.122	16956.07	
5/5/2002 03:09:00	926.3333	783.1500	103.151	16956.62	
5/5/2002 15:09:00	938.3333	795.1500	103.172	16956.74	
5/6/2002 03:09:00	950.3333	807.1500	103.203	16957.36	
5/6/2002 15:09:00	962.3333	819.1500	103.227	16957.62	
5/7/2002 03:09:00	974.3333	831.1500	103.251	16958.26	
5/7/2002 15:09:00	986.3333	843.1500	103.276	16958.47	
5/8/2002 03:09:00	998.3333	855.1500	103.300	16958.76	
5/8/2002 15:09:00	1010.3333	867.1500	103.324	16959.19	
5/9/2002 03:09:00	1022.3333	879.1500	103.348	16959.69	
5/9/2002 15:09:00	1034.3333	891.1500	103.365	16959.84	
5/10/2002 03:09:00	1046.3333	903.1500	103.392	16960.47	
5/10/2002 15:09:00	1058.3333	915.1500	103.408	16960.34	
5/11/2002 03:09:00	1070.3333	927.1500	103.433	16961.07	
5/11/2002 15:09:00	1082.3333	939.1500	103.456	16961.57	
5/12/2002 03:09:00	1094.3333	951.1500	103.477	16961.75	
5/12/2002 15:09:00	1106.3333	963.1500	103.497	16962.05	
5/13/2002 03:09:00	1118.3333	975.1500	103.516	16962.39	
5/13/2002 15:09:00	1130.3333	987.1500	103.537	16962.98	
5/14/2002 03:09:00	1142.3333	999.1500	103.555	16963.15	
5/14/2002 15:09:00	1154.3333	1011.1500	103.577	16963.56	
5/15/2002 03:09:00	1166.3333	1023.1500	103.589	16963.88	
5/15/2002 15:09:00	1178.3333	1035.1500	103.609	16964.21	
5/16/2002 03:09:00	1190.3333	1047.1500	103.627	16964.46	
5/16/2002 15:09:00	1202.3333	1059.1500	103.646	16964.85	
5/17/2002 03:09:00	1214.3333	1071.1500	103.664	16965.35	
5/17/2002 15:09:00	1226.3333	1083.1500	103.682	16965.66	
5/18/2002 03:09:00	1238.3333	1095.1500	103.697	16965.91	
5/18/2002 15:09:00	1250.3333	1107.1500	103.715	16966.26	

Company: ANADARKO CANADA ENERGY LTD. Well name: ANADARKO NETLA A-68
Date of test: 03/27/02 TO 06/30/02 Location: A-68
Element serial#: 9471 Run Depth (KB): 2021.2

TOP RECORDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
5/19/2002 03:09:00	1262.3333	1119.1500	103.731	16966.52	
5/19/2002 15:09:00	1274.3333	1131.1500	103.742	16966.78	
5/20/2002 03:09:00	1286.3333	1143.1500	103.761	16967.22	
5/20/2002 15:09:00	1298.3333	1155.1500	103.778	16967.68	
5/21/2002 03:09:00	1310.3333	1167.1500	103.792	16967.76	
5/21/2002 15:09:00	1322.3333	1179.1500	103.807	16968.37	
5/22/2002 03:09:00	1334.3333	1191.1500	103.821	16968.44	
5/22/2002 15:09:00	1346.3333	1203.1500	103.836	16968.72	
5/23/2002 03:09:00	1358.3333	1215.1500	103.851	16969.20	
5/23/2002 15:09:00	1370.3333	1227.1500	103.865	16969.43	
5/24/2002 03:09:00	1382.3333	1239.1500	103.879	16969.61	
5/24/2002 15:09:00	1394.3333	1251.1500	103.888	16969.88	
5/25/2002 03:09:00	1406.3333	1263.1500	103.904	16970.29	
5/25/2002 15:09:00	1418.3333	1275.1500	103.914	16970.45	
5/26/2002 03:09:00	1430.3333	1287.1500	103.928	16970.87	
5/26/2002 15:09:00	1442.3333	1299.1500	103.941	16971.14	
5/27/2002 03:09:00	1454.3333	1311.1500	103.952	16971.28	
5/27/2002 15:09:00	1466.3333	1323.1500	103.965	16971.58	
5/28/2002 03:09:00	1478.3333	1335.1500	103.973	16971.79	
5/28/2002 15:09:00	1490.3333	1347.1500	103.993	16972.42	
5/29/2002 03:09:00	1502.3333	1359.1500	104.004	16972.55	
5/29/2002 15:09:00	1514.3333	1371.1500	104.015	16972.87	
5/30/2002 03:09:00	1526.3333	1383.1500	104.028	16973.26	
5/30/2002 15:09:00	1538.3333	1395.1500	104.036	16973.45	
5/31/2002 03:09:00	1550.3333	1407.1500	104.049	16973.64	
5/31/2002 15:09:00	1562.3333	1419.1500	104.060	16974.04	
6/1/2002 03:09:00	1574.3333	1431.1500	104.067	16974.11	
6/1/2002 15:09:00	1586.3333	1443.1500	104.082	16974.47	
6/2/2002 03:09:00	1598.3333	1455.1500	104.091	16974.77	
6/2/2002 15:09:00	1610.3333	1467.1500	104.096	16974.96	
6/3/2002 03:09:00	1622.3333	1479.1500	104.108	16975.21	
6/3/2002 15:09:00	1634.3333	1491.1500	104.120	16975.64	
6/4/2002 03:09:00	1646.3333	1503.1500	104.131	16975.83	
6/4/2002 15:09:00	1658.3333	1515.1500	104.143	16976.20	
6/5/2002 03:09:00	1670.3333	1527.1500	104.147	16976.31	
6/5/2002 15:09:00	1682.3333	1539.1500	104.161	16976.78	
6/6/2002 03:09:00	1694.3333	1551.1500	104.167	16976.87	
6/6/2002 15:09:00	1706.3333	1563.1500	104.176	16977.04	
6/7/2002 03:09:00	1718.3333	1575.1500	104.183	16977.42	
6/7/2002 15:09:00	1730.3333	1587.1500	104.196	16977.86	
6/8/2002 03:09:00	1742.3333	1599.1500	104.203	16978.05	
6/8/2002 15:09:00	1754.3333	1611.1500	104.209	16977.99	
6/9/2002 03:09:00	1766.3333	1623.1500	104.215	16978.33	
6/9/2002 15:09:00	1778.3333	1635.1500	104.230	16978.84	
6/10/2002 03:09:00	1790.3333	1647.1500	104.233	16979.11	
6/10/2002 15:09:00	1802.3333	1659.1500	104.243	16979.03	
6/11/2002 03:09:00	1814.3333	1671.1500	104.252	16979.62	

Company: ANADARKO CANADA ENERGY LTD. Well name: ANADARKO NETLA A-68
Date of test: 03/27/02 TO 06/30/02 Location: A-68
Element serial#: 9471 Run Depth (KB): 2021.2

TOP RECORDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
6/11/2002 15:09:00	1826.3333	1683.1500	104.256	16979.64	
6/12/2002 03:09:00	1838.3333	1695.1500	104.268	16980.33	
6/12/2002 15:09:00	1850.3333	1707.1500	104.274	16980.28	
6/13/2002 03:09:00	1862.3333	1719.1500	104.282	16980.66	
6/13/2002 15:09:00	1874.3333	1731.1500	104.289	16980.74	
6/14/2002 03:09:00	1886.3333	1743.1500	104.295	16981.20	
6/14/2002 15:09:00	1898.3333	1755.1500	104.301	16981.25	
6/15/2002 03:09:00	1910.3333	1767.1500	104.304	16981.45	
6/15/2002 15:09:00	1922.3333	1779.1500	104.314	16981.83	
6/16/2002 03:09:00	1934.3333	1791.1500	104.319	16982.11	
6/16/2002 15:09:00	1946.3333	1803.1500	104.323	16982.36	
6/17/2002 03:09:00	1958.3333	1815.1500	104.335	16982.92	
6/17/2002 15:09:00	1970.3333	1827.1500	104.333	16982.71	
6/18/2002 03:09:00	1982.3333	1839.1500	104.342	16983.19	
6/18/2002 15:09:00	1994.3333	1851.1500	104.349	16983.53	
6/19/2002 03:09:00	2006.3333	1863.1500	104.352	16983.38	
6/19/2002 15:09:00	2018.3333	1875.1500	104.359	16983.65	
6/20/2002 03:09:00	2030.3333	1887.1500	104.369	16983.88	
6/20/2002 15:09:00	2042.3333	1899.1500	104.368	16984.05	
6/21/2002 03:09:00	2054.3333	1911.1500	104.379	16984.46	
6/21/2002 15:09:00	2066.3333	1923.1500	104.386	16984.65	
6/22/2002 03:09:00	2078.3333	1935.1500	104.277	16984.25	
6/22/2002 15:09:00	2090.3333	1947.1500	104.338	16984.45	
6/23/2002 03:09:00	2102.3333	1959.1500	104.367	16985.22	
6/23/2002 15:09:00	2114.3333	1971.1500	104.379	16985.37	
6/24/2002 03:09:00	2126.3333	1983.1500	104.383	16985.41	
6/24/2002 15:09:00	2138.3333	1995.1500	104.393	16985.89	
6/25/2002 03:09:00	2150.3333	2007.1500	104.397	16986.04	
6/25/2002 15:09:00	2162.3333	2019.1500	104.402	16986.18	
6/26/2002 03:09:00	2174.3333	2031.1500	104.413	16986.72	
6/26/2002 15:09:00	2186.3333	2043.1500	104.416	16986.88	
6/27/2002 03:09:00	2198.3333	2055.1499	104.424	16987.10	
6/27/2002 15:09:00	2210.3333	2067.1499	104.427	16987.28	
6/28/2002 03:09:00	2222.3333	2079.1499	104.435	16987.68	
6/28/2002 15:09:00	2234.3333	2091.1499	104.441	16988.05	
6/29/2002 03:09:00	2246.3333	2103.1499	104.445	16988.39	
6/29/2002 15:09:00	2258.3333	2115.1499	104.525	16988.30	
6/30/2002 03:09:00	2270.3333	2127.1499	104.469	16988.55	
6/30/2002 08:04:00	2275.2500	2132.0667	104.374	16987.87	
	06/30/2002 08:04:00 OFF BOTTOM				
6/30/2002 08:04:00	2275.2500	0.0000	104.374	16987.87	

Remarks:
OPEN HOLE COMPLETION.

Test by: RAPID

Interpretation by P.D.Q. SERVICES LTD.

Subsurface Pressure Measurements

Company: ANADARKO CANADA ENERGY LTD.
Address: CALGARY, ALBERTA
Field & Pool: NETLA / SLAVE POINT
Type of test: SINGLE POINT
Prod. Int KB: 2024.0 to 2078.0
Elev. (CF) 649.3 (KB) 654.01
Pool datum:

Tubing pres:
Shut in time: 04/02/02 12:00 HRS
Temperature at run depth: 104.415
Deviated well: N

Well name: ANADARKO NETLA A-68
Location: A-68
Status: GAS
Date of test: 03/27/02 TO 06/30/02
Prod. through: 88.9MM TUBING
Mid-point prod.int. KB: 2051
Datum depth of well KB:

Casing pres:
Duration of Shut in: 2132.0667 HRS
On/off btm: 03/27/02 / 06/30/02
Depths corrected to TVD: Y

Note: All units in metric, depth in meters kb; pressure in kPaa

TOP RECORDER

Element serial#: 9471
Pressure Range: 41369 KPAA
CAL-SCAN ELECTRONIC RECORDER
Latest calibration: 03/13/02
Reading Interval: 30 SECONDS
Gauge started: 03/27/02 11:38
Gauge stopped: 06/30/02 08:32
Run depth (KB): 2021.2

BOTTOM RECORDER

Element serial#: 9472
Pressure range: 41369 KPAA
CAL-SCAN ELECTRONIC RECORDER
Latest calibration: 03/13/02
Reading Interval: 30 SECONDS
Gauge started: 03/27/02 11:38
Gauge stopped: 06/30/02 08:32
Run depth (KB): 2021.7

BOTTOM RECORDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
	03/27/2002 12:49:00	ON BOTTOM			
3/27/2002 12:49:00	0.0000	0.0000	73.691	16764.64	
3/27/2002 16:49:00	4.0000	4.0000	86.539	16992.89	
3/27/2002 20:49:00	8.0000	8.0000	88.719	17017.08	
3/28/2002 00:49:00	12.0000	12.0000	90.137	17028.70	
3/28/2002 04:49:00	16.0000	16.0000	91.123	17036.46	
3/28/2002 08:49:00	20.0000	20.0000	91.838	17042.37	
3/28/2002 12:01:30	23.2083	23.2083	92.269	17046.03	
	03/28/2002 12:01:30	OPENED WELL TO FLOW			
3/28/2002 12:01:30	23.2083	0.0000	92.269	17046.03	
3/28/2002 15:09:00	26.3333	3.1250	86.452	16898.17	
3/29/2002 03:09:00	38.3333	15.1250	81.420	16831.87	
3/29/2002 15:09:00	50.3333	27.1250	78.475	16663.99	
3/30/2002 03:09:00	62.3333	39.1250	80.737	16488.84	
3/30/2002 15:09:00	74.3333	51.1250	82.697	16387.29	
3/31/2002 03:09:00	86.3333	63.1250	84.373	16184.83	
3/31/2002 15:09:00	98.3333	75.1250	85.954	16207.38	
4/1/2002 03:09:00	110.3333	87.1250	87.114	16172.56	
4/1/2002 15:09:00	122.3333	99.1250	88.585	16136.09	
4/2/2002 03:09:00	134.3333	111.1250	89.840	16101.45	
4/2/2002 12:00:00	143.1833	119.9750	90.578	16078.17	
	04/02/2002 12:00:00	SHUT WELL IN FOR BUILD UP			
4/2/2002 12:00:00	143.1833	0.0000	90.578	16078.17	

Company: ANADARKO CANADA ENERGY LTD. Well name: ANADARKO NETLA A-68
Date of test: 03/27/02 TO 06/30/02 Location: A-68
Element serial#: 9472 Run Depth (KB): 2021.7

BOTTOM RECORDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
4/2/2002 12:44:00	143.9167	0.7333	91.904	16578.45	
4/2/2002 15:09:00	146.3333	3.1500	93.669	16699.19	
4/3/2002 03:09:00	158.3333	15.1500	95.611	16788.07	
4/3/2002 15:09:00	170.3333	27.1500	96.526	16817.07	
4/4/2002 03:09:00	182.3333	39.1500	97.136	16834.79	
4/4/2002 15:09:00	194.3333	51.1500	97.598	16848.27	
4/5/2002 03:09:00	206.3333	63.1500	97.980	16859.35	
4/5/2002 15:09:00	218.3333	75.1500	98.313	16868.89	
4/6/2002 03:09:00	230.3333	87.1500	98.604	16877.32	
4/6/2002 15:09:00	242.3333	99.1500	98.864	16884.70	
4/7/2002 03:09:00	254.3333	111.1500	99.094	16891.24	
4/7/2002 15:09:00	266.3333	123.1500	99.308	16897.28	
4/8/2002 03:09:00	278.3333	135.1500	99.504	16902.85	
4/8/2002 15:09:00	290.3333	147.1500	99.689	16907.77	
4/9/2002 03:09:00	302.3333	159.1500	99.859	16912.48	
4/9/2002 15:09:00	314.3333	171.1500	100.017	16916.51	
4/10/2002 03:09:00	326.3333	183.1500	100.165	16920.26	
4/10/2002 15:09:00	338.3333	195.1500	100.303	16923.68	
4/11/2002 03:09:00	350.3333	207.1500	100.438	16927.02	
4/11/2002 15:09:00	362.3333	219.1500	100.564	16929.95	
4/12/2002 03:09:00	374.3333	231.1500	100.679	16932.72	
4/12/2002 15:09:00	386.3333	243.1500	100.792	16935.05	
4/13/2002 03:09:00	398.3333	255.1500	100.899	16937.34	
4/13/2002 15:09:00	410.3333	267.1500	101.001	16939.43	
4/14/2002 03:09:00	422.3333	279.1500	101.092	16941.14	
4/14/2002 15:09:00	434.3333	291.1500	101.185	16943.00	
4/15/2002 03:09:00	446.3333	303.1500	101.274	16944.60	
4/15/2002 15:09:00	458.3333	315.1500	101.368	16946.23	
4/16/2002 03:09:00	470.3333	327.1500	101.445	16947.38	
4/16/2002 15:09:00	482.3333	339.1500	101.526	16948.76	
4/17/2002 03:09:00	494.3333	351.1500	101.599	16950.04	
4/17/2002 15:09:00	506.3333	363.1500	101.672	16951.19	
4/18/2002 03:09:00	518.3333	375.1500	101.747	16952.33	
4/18/2002 15:09:00	530.3333	387.1500	101.811	16953.26	
4/19/2002 03:09:00	542.3333	399.1500	101.876	16954.04	
4/19/2002 15:09:00	554.3333	411.1500	101.938	16955.03	
4/20/2002 03:09:00	566.3333	423.1500	102.000	16955.88	
4/20/2002 15:09:00	578.3333	435.1500	102.063	16956.86	
4/21/2002 03:09:00	590.3333	447.1500	102.109	16957.03	
4/21/2002 15:09:00	602.3333	459.1500	102.169	16957.74	
4/22/2002 03:09:00	614.3333	471.1500	102.225	16958.67	
4/22/2002 15:09:00	626.3333	483.1500	102.275	16959.12	
4/23/2002 03:09:00	638.3333	495.1500	102.322	16959.75	
4/23/2002 15:09:00	650.3333	507.1500	102.371	16960.09	
4/24/2002 03:09:00	662.3333	519.1500	102.421	16960.75	
4/24/2002 15:09:00	674.3333	531.1500	102.468	16961.22	
4/25/2002 03:09:00	686.3333	543.1500	102.510	16961.67	

Company: ANADARKO CANADA ENERGY LTD.
Date of test: 03/27/02 TO 06/30/02
Element serial#: 9472

Well name: ANADARKO NETLA A-68
Location: A-68
Run Depth (KB): 2021.7

BOTTOM RECORDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
4/25/2002 15:09:00	698.3333	555.1500	102.555	16962.19	
4/26/2002 03:09:00	710.3333	567.1500	102.598	16962.62	
4/26/2002 15:09:00	722.3333	579.1500	102.637	16962.83	
4/27/2002 03:09:00	734.3333	591.1500	102.678	16963.28	
4/27/2002 15:09:00	746.3333	603.1500	102.716	16963.61	
4/28/2002 03:09:00	758.3333	615.1500	102.757	16964.02	
4/28/2002 15:09:00	770.3333	627.1500	102.789	16964.28	
4/29/2002 03:09:00	782.3333	639.1500	102.825	16964.51	
4/29/2002 15:09:00	794.3333	651.1500	102.864	16964.95	
4/30/2002 03:09:00	806.3333	663.1500	102.898	16965.01	
4/30/2002 15:09:00	818.3333	675.1500	102.934	16965.35	
5/1/2002 03:09:00	830.3333	687.1500	102.965	16965.60	
5/1/2002 15:09:00	842.3333	699.1500	102.994	16965.85	
5/2/2002 03:09:00	854.3333	711.1500	103.031	16966.15	
5/2/2002 15:09:00	866.3333	723.1500	103.060	16966.31	
5/3/2002 03:09:00	878.3333	735.1500	103.091	16966.66	
5/3/2002 15:09:00	890.3333	747.1500	103.116	16966.84	
5/4/2002 03:09:00	902.3333	759.1500	103.152	16967.20	
5/4/2002 15:09:00	914.3333	771.1500	103.176	16967.23	
5/5/2002 03:09:00	926.3333	783.1500	103.204	16967.57	
5/5/2002 15:09:00	938.3333	795.1500	103.227	16967.54	
5/6/2002 03:09:00	950.3333	807.1500	103.256	16967.76	
5/6/2002 15:09:00	962.3333	819.1500	103.282	16968.01	
5/7/2002 03:09:00	974.3333	831.1500	103.306	16968.18	
5/7/2002 15:09:00	986.3333	843.1500	103.332	16968.37	
5/8/2002 03:09:00	998.3333	855.1500	103.356	16968.61	
5/8/2002 15:09:00	1010.3333	867.1500	103.378	16968.74	
5/9/2002 03:09:00	1022.3333	879.1500	103.402	16968.90	
5/9/2002 15:09:00	1034.3333	891.1500	103.425	16969.00	
5/10/2002 03:09:00	1046.3333	903.1500	103.448	16969.10	
5/10/2002 15:09:00	1058.3333	915.1500	103.471	16969.32	
5/11/2002 03:09:00	1070.3333	927.1500	103.491	16969.50	
5/11/2002 15:09:00	1082.3333	939.1500	103.511	16969.64	
5/12/2002 03:09:00	1094.3333	951.1500	103.531	16969.50	
5/12/2002 15:09:00	1106.3333	963.1500	103.553	16969.83	
5/13/2002 03:09:00	1118.3333	975.1500	103.570	16969.82	
5/13/2002 15:09:00	1130.3333	987.1500	103.592	16970.22	
5/14/2002 03:09:00	1142.3333	999.1500	103.613	16970.24	
5/14/2002 15:09:00	1154.3333	1011.1500	103.631	16970.55	
5/15/2002 03:09:00	1166.3333	1023.1500	103.647	16970.74	
5/15/2002 15:09:00	1178.3333	1035.1500	103.666	16971.05	
5/16/2002 03:09:00	1190.3333	1047.1500	103.684	16971.13	
5/16/2002 15:09:00	1202.3333	1059.1500	103.702	16971.21	
5/17/2002 03:09:00	1214.3333	1071.1500	103.722	16971.49	
5/17/2002 15:09:00	1226.3333	1083.1500	103.734	16971.52	
5/18/2002 03:09:00	1238.3333	1095.1500	103.753	16971.76	
5/18/2002 15:09:00	1250.3333	1107.1500	103.767	16971.59	

Company: ANADARKO CANADA ENERGY LTD. Well name: ANADARKO NETLA A-68
Date of test: 03/27/02 TO 06/30/02 Location: A-68
Element serial#: 9472 Run Depth (KB): 2021.7

BOTTOM RECORDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
5/19/2002 03:09:00	1262.3333	1119.1500	103.785	16972.03	
5/19/2002 15:09:00	1274.3333	1131.1500	103.800	16972.18	
5/20/2002 03:09:00	1286.3333	1143.1500	103.815	16972.30	
5/20/2002 15:09:00	1298.3333	1155.1500	103.829	16972.39	
5/21/2002 03:09:00	1310.3333	1167.1500	103.844	16972.52	
5/21/2002 15:09:00	1322.3333	1179.1500	103.862	16972.86	
5/22/2002 03:09:00	1334.3333	1191.1500	103.875	16972.98	
5/22/2002 15:09:00	1346.3333	1203.1500	103.888	16973.21	
5/23/2002 03:09:00	1358.3333	1215.1500	103.901	16973.24	
5/23/2002 15:09:00	1370.3333	1227.1500	103.918	16973.51	
5/24/2002 03:09:00	1382.3333	1239.1500	103.928	16973.70	
5/24/2002 15:09:00	1394.3333	1251.1500	103.939	16973.83	
5/25/2002 03:09:00	1406.3333	1263.1500	103.956	16974.16	
5/25/2002 15:09:00	1418.3333	1275.1500	103.970	16974.36	
5/26/2002 03:09:00	1430.3333	1287.1500	103.981	16974.31	
5/26/2002 15:09:00	1442.3333	1299.1500	103.991	16974.71	
5/27/2002 03:09:00	1454.3333	1311.1500	104.007	16974.81	
5/27/2002 15:09:00	1466.3333	1323.1500	104.014	16974.80	
5/28/2002 03:09:00	1478.3333	1335.1500	104.030	16975.28	
5/28/2002 15:09:00	1490.3333	1347.1500	104.040	16975.53	
5/29/2002 03:09:00	1502.3333	1359.1500	104.052	16975.64	
5/29/2002 15:09:00	1514.3333	1371.1500	104.058	16975.61	
5/30/2002 03:09:00	1526.3333	1383.1500	104.071	16975.94	
5/30/2002 15:09:00	1538.3333	1395.1500	104.083	16976.10	
5/31/2002 03:09:00	1550.3333	1407.1500	104.097	16976.40	
5/31/2002 15:09:00	1562.3333	1419.1500	104.107	16976.74	
6/1/2002 03:09:00	1574.3333	1431.1500	104.114	16976.66	
6/1/2002 15:09:00	1586.3333	1443.1500	104.124	16976.89	
6/2/2002 03:09:00	1598.3333	1455.1500	104.137	16977.38	
6/2/2002 15:09:00	1610.3333	1467.1500	104.149	16977.70	
6/3/2002 03:09:00	1622.3333	1479.1500	104.154	16977.65	
6/3/2002 15:09:00	1634.3333	1491.1500	104.166	16977.84	
6/4/2002 03:09:00	1646.3333	1503.1500	104.173	16978.07	
6/4/2002 15:09:00	1658.3333	1515.1500	104.186	16978.46	
6/5/2002 03:09:00	1670.3333	1527.1500	104.195	16978.70	
6/5/2002 15:09:00	1682.3333	1539.1500	104.200	16978.45	
6/6/2002 03:09:00	1694.3333	1551.1500	104.211	16978.86	
6/6/2002 15:09:00	1706.3333	1563.1500	104.224	16979.26	
6/7/2002 03:09:00	1718.3333	1575.1500	104.232	16979.56	
6/7/2002 15:09:00	1730.3333	1587.1500	104.242	16979.85	
6/8/2002 03:09:00	1742.3333	1599.1500	104.247	16979.89	
6/8/2002 15:09:00	1754.3333	1611.1500	104.257	16980.08	
6/9/2002 03:09:00	1766.3333	1623.1500	104.266	16980.38	
6/9/2002 15:09:00	1778.3333	1635.1500	104.276	16980.67	
6/10/2002 03:09:00	1790.3333	1647.1500	104.286	16980.75	
6/10/2002 15:09:00	1802.3333	1659.1500	104.288	16980.92	
6/11/2002 03:09:00	1814.3333	1671.1500	104.300	16981.21	

Company: ANADARKO CANADA ENERGY LTD.
Date of test: 03/27/02 TO 06/30/02
Element serial#: 9472

Well name: ANADARKO NETLA A-68
Location: A-68
Run Depth (KB): 2021.7

BOTTOM RECORDER

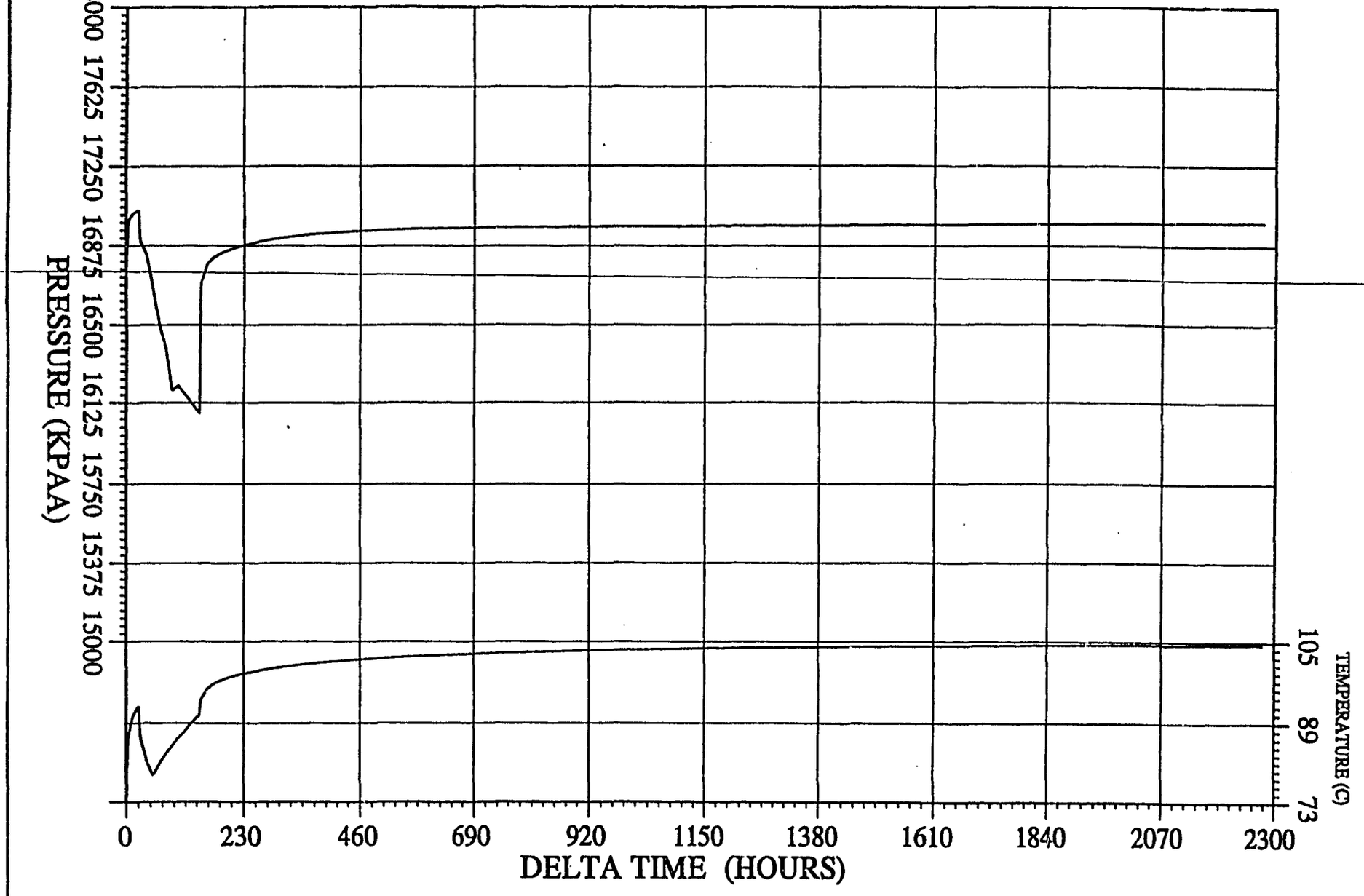
COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
6/11/2002 15:09:00	1826.3333	1683.1500	104.310	16981.54	
6/12/2002 03:09:00	1838.3333	1695.1500	104.315	16981.74	
6/12/2002 15:09:00	1850.3333	1707.1500	104.323	16982.05	
6/13/2002 03:09:00	1862.3333	1719.1500	104.332	16982.20	
6/13/2002 15:09:00	1874.3333	1731.1500	104.337	16982.35	
6/14/2002 03:09:00	1886.3333	1743.1500	104.347	16982.68	
6/14/2002 15:09:00	1898.3333	1755.1500	104.350	16982.79	
6/15/2002 03:09:00	1910.3333	1767.1500	104.358	16982.99	
6/15/2002 15:09:00	1922.3333	1779.1500	104.360	16982.95	
6/16/2002 03:09:00	1934.3333	1791.1500	104.373	16983.59	
6/16/2002 15:09:00	1946.3333	1803.1500	104.377	16983.61	
6/17/2002 03:09:00	1958.3333	1815.1500	104.391	16984.00	
6/17/2002 15:09:00	1970.3333	1827.1500	104.395	16984.26	
6/18/2002 03:09:00	1982.3333	1839.1500	104.402	16984.39	
6/18/2002 15:09:00	1994.3333	1851.1500	104.406	16984.38	
6/19/2002 03:09:00	2006.3333	1863.1500	104.413	16984.74	
6/19/2002 15:09:00	2018.3333	1875.1500	104.418	16985.00	
6/20/2002 03:09:00	2030.3333	1887.1500	104.428	16985.27	
6/20/2002 15:09:00	2042.3333	1899.1500	104.431	16985.04	
6/21/2002 03:09:00	2054.3333	1911.1500	104.440	16985.83	
6/21/2002 15:09:00	2066.3333	1923.1500	104.445	16985.60	
6/22/2002 03:09:00	2078.3333	1935.1500	104.331	16985.29	
6/22/2002 15:09:00	2090.3333	1947.1500	104.397	16985.77	
6/23/2002 03:09:00	2102.3333	1959.1500	104.420	16986.03	
6/23/2002 15:09:00	2114.3333	1971.1500	104.433	16986.05	
6/24/2002 03:09:00	2126.3333	1983.1500	104.449	16986.47	
6/24/2002 15:09:00	2138.3333	1995.1500	104.455	16986.59	
6/25/2002 03:09:00	2150.3333	2007.1500	104.465	16987.04	
6/25/2002 15:09:00	2162.3333	2019.1500	104.472	16987.23	
6/26/2002 03:09:00	2174.3333	2031.1500	104.479	16987.41	
6/26/2002 15:09:00	2186.3333	2043.1500	104.488	16987.82	
6/27/2002 03:09:00	2198.3333	2055.1499	104.490	16987.77	
6/27/2002 15:09:00	2210.3333	2067.1499	104.492	16987.81	
6/28/2002 03:09:00	2222.3333	2079.1499	104.503	16988.19	
6/28/2002 15:09:00	2234.3333	2091.1499	104.512	16988.78	
6/29/2002 03:09:00	2246.3333	2103.1499	104.516	16988.62	
6/29/2002 15:09:00	2258.3333	2115.1499	104.623	16987.97	
6/30/2002 03:09:00	2270.3333	2127.1499	104.540	16988.41	
6/30/2002 08:04:00	2275.2500	2132.0667	104.415	16988.59	
	06/30/2002 08:04:00 OFF BOTTOM				
6/30/2002 08:04:00	2275.2500	0.0000	104.415	16988.59	

Remarks:
OPEN HOLE COMPLETION.

Test by: RAPID

Interpretation by P.D.Q. SERVICES LTD.

Company: ANADARKO CANADA ENERGY LTD. Well name: ANADARKO NETLA A-68
Location: A-68 Date of test: 03/27/02 TO 06/30/02
Element: 9472 By P.D.Q. SERVICES LTD.



Company: ANADARKO CANADA ENERGY LTD.
Well name: ANADARKO NETLA A-68
Location: A-68
Date of test: 06/29/02
Test by RAPID WIRELINE SERVICES LTD.
Interp. by P.D.Q. Services Ltd.

Subsurface Pressure Measurements

Company: ANADARKO CANADA ENERGY LTD.
Address: CALGARY, ALBERTA
Field & Pool: NETLA / SLAVE POINT
Type of test: STATIC GRADIENT
Prod. Int KB: 2024.0 to 2078.0
Elev. (CF) 649.3 (KB) 654.01
Pool datum:

Tubing pres:
Shut in time: 04/02/02 12:00 HRS
Temperature at run depth: 103.465
Deviated well: N

Well name: ANADARKO NETLA A-68
Location: A-68
Status: GAS
Date of test: 06/29/02
Prod. through: 88.9MM TUBING
Mid-point prod.int. KB: 2051
Datum depth of well KB:

Casing pres:
Duration of Shut in: 2111.1499 HRS
On bottom/off bottom: 10:49 / 11:09
Depths corrected to TVD: Y

Note: All units in metric, depth in meters kb; pressure in kPaa

TOP RECORDER

Element serial#: 20272
Pressure Range: 41369 KPAA
CAL-SCAN ELECTRONIC RECORDER
Latest calibration: 12/23/01

Gauge started: 06/29/02 09:32
Gauge stopped: 06/29/02 11:30
Run depth (KB): 2017.2
Grad. at run depth: 1.077
Pres. at run depth: 16987.7
Pres. at mid point perf.: 17024.2
Pres. at datum depth:

Depth m	Temp DEG.C	Pressure KPAA	Gradient KPA/m
4.2	28.88	14403.5	0.000
604.2	24.98	15296.3	1.488
1204.2	55.45	16076.7	1.301
1504.2	71.76	16428.3	1.172
1804.2	89.05	16757.5	1.097
1904.2	95.05	16866.5	1.090
1954.2	98.42	16919.9	1.067
1994.2	100.90	16963.0	1.077
2017.2	103.12	16987.7	1.077

Fluid level at N/A
Final pressure on bottom:16987.7 KPAA

BOTTOM RECORDER

Element serial#: 20280
Pressure range: 41369 KPAA
CAL-SCAN ELECTRONIC RECORDER
Latest calibration: 12/23/01

Gauge started: 06/29/02 09:32
Gauge stopped: 06/29/02 11:30
Run depth (KB): 2017.7
Grad. at run depth: 1.049
Pres. at run depth: 16988.3
Pres. at mid point perf.: 17023.3
Pres. at datum depth:

Depth m	Temp DEG.C	Pressure KPAA	Gradient KPA/m
4.7	25.90	14410.9	0.000
604.7	25.13	15306.5	1.493
1204.7	55.91	16091.5	1.308
1504.7	72.26	16436.5	1.150
1804.7	89.57	16761.6	1.084
1904.7	95.67	16868.6	1.070
1954.7	98.90	16921.4	1.057
1994.7	101.31	16964.2	1.069
2017.7	103.46	16988.3	1.049

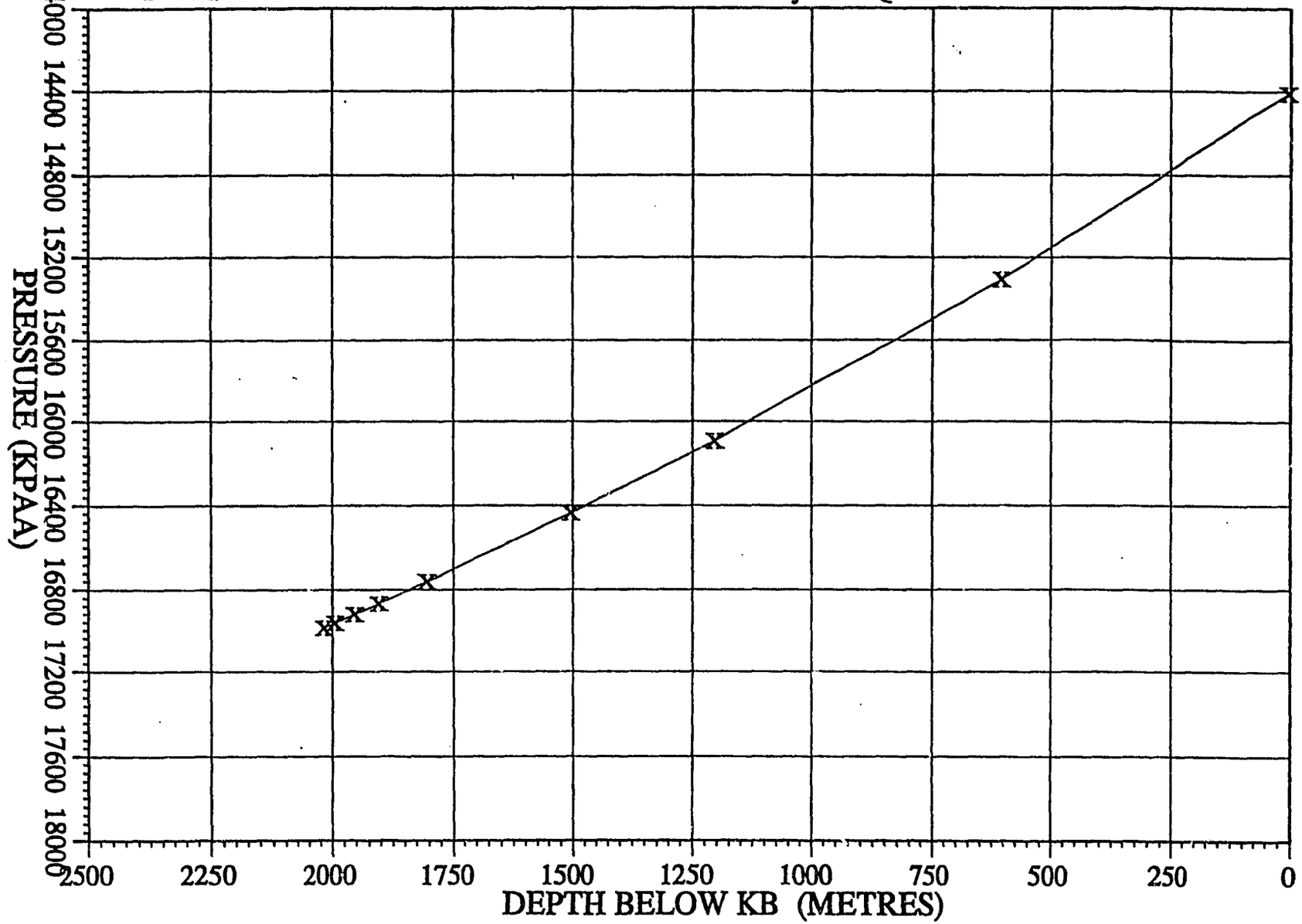
Fluid level at N/A
Final pressure on bottom:16988.3 KPAA

Remarks:
OPEN HOLE COMPLETION. PRESSURE STABLE ON LAST STOP (20 MINS.)

Test by: RAPID

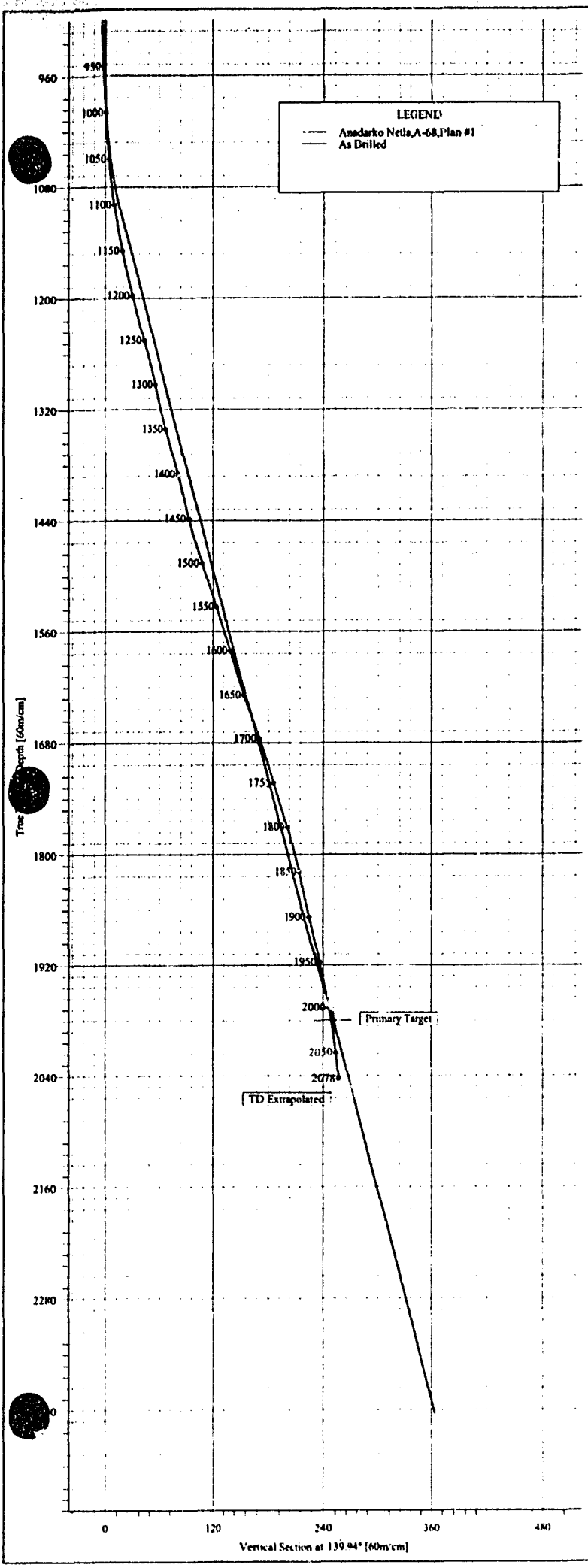
Interpretation by P.D.Q. SERVICES LTD.

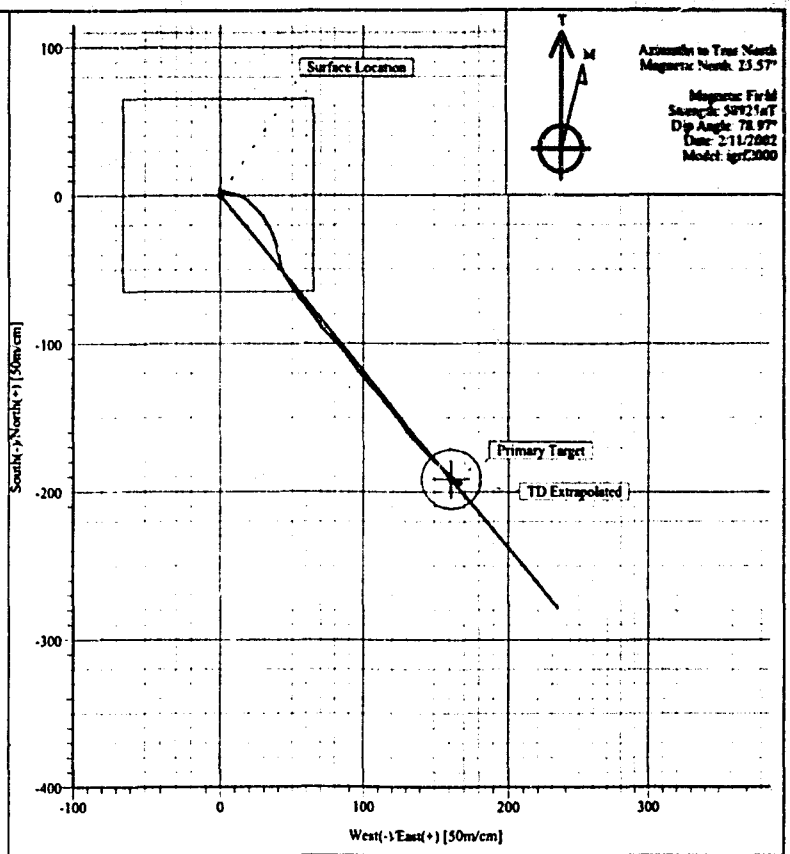
Company: ANADARKO CANADA ENERGY LTD. Well name: ANADARKO NETLA A-68
Location: A-68 Date of test: 06/29/02
Pressure at run depth 16988.3 Fluid level N/A
Serial#: 20280 By P.D.Q. SERVICES LTD.



GRADIENT TEST

APPENDIX 3





Field: Netla
Site: Radius Job #27-1031
Well: Anadarko Netla
Wellpath: A-68
Survey: As Drilled

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Site Centre Radius Job #27-1031, True North
Vertical (TVD) Reference: SITE 653.50
Section (VS) Reference: Slot - (0.00N,0.00E)
Measured Depth Reference: SITE 653.50
Calculation Method: Minimum Curvature

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Surface Location	0.00	0.00	0.00	Rectangle (130x130)
Primary Target	1980.00	-191.62	161.14	Circle (Radius: 20)

FORMATION TOP DETAILS

No	TVDPath	MDPath	Formation
1	501.00	501.00	Scatter Snad
2	566.00	566.00	Garbutt
3	681.00	681.00	Unicon
4	739.00	739.01	Kotcho
5	1019.00	1019.25	Teicho
6	1108.00	1108.95	Trout River
7	1184.00	1186.47	Kakiska
8	1217.00	1220.50	Fort Simpson
9	1924.00	1957.51	Muskwa
10	1952.00	1986.06	Slave Point
11	1980.00	2014.50	Slave Point Porosity

SITE DETAILS

Radius Job #27-1031

Site Centre Northing: 6738717.87
Easting: 516654.97

Ground Level: 648.70
Positional Uncertainty: 0.00
Convergence: 0.27

Dene Directional & Rentals Ltd.

Prepared By:
Radius Directional Services
Suite 642, 630 - 8th Avenue SW
Calgary, Alberta T2P 1G6
Phone: 403.290.4150
Fax: 403.290.4181

RADIUS Directional Services
Survey Report

Company:	Anadarko Canada Corporation	**Date:**	3/21/2002	**Time:** 15:02:10	**Page:** 1
Field:	Netla	**Co-ordinate(NE) Reference:**	Site: Radius Job #27-1031, True North		
Site:	Radius Job #27-1031	**Vertical (TVD) Reference:**	SITE 653.5		
Well:	Anadarko Netla	**Section (VS) Reference:**	Well (0.00N,0.00E,139.94Azi)		
Wellpath:	A-68	**Survey Calculation Method:**	Minimum Curvature	**Db:** Sybase	

Field:	Netla Northwest Territories Canada		
Map System:	Canadian UTM Zones (NAD27/Clarke66)	**Map Zone:**	UTM Zone 10, North 126W to 120W
Geo Datum:	Clarke 1866	**Coordinate System:**	Site Centre
Sys Datum:	Mean Sea Level	**Geomagnetic Model:**	igrf2000

Site: Radius Job #27-1031

Site Position:		**Northing:**	6738717.87 m	**Latitude:**	60 47 7.414 N
From:	Map	**Easting:**	516654.97 m	**Longitude:**	122 41 38.892 W
Position Uncertainty:	0.00 m			**North Reference:**	True
Ground Level:	648.70 m			**Grid Convergence:**	0.27 deg

Well:	Anadarko Netla A-68				**Slot Name:**	
Well Position:	+N/-S	0.00 m	**Northing:**	6738717.87 m	**Latitude:**	60 47 7.414 N
	+E/-W	0.00 m	**Easting:**	516654.97 m	**Longitude:**	122 41 38.892 W
Position Uncertainty:		0.00 m				

Wellpath:	A-68			**Drilled From:**	Surface
				Tie-on Depth:	0.00 m
Current Datum:	SITE	**Height**	653.50 m	**Above System Datum:**	Mean Sea Level
Magnetic Data:	2/11/2002			**Declination:**	25.57 deg
Field Strength:	58925 nT			**Mag Dip Angle:**	78.97 deg

Vertical Section:	**Depth From (TVD)** m	**+N/-S** m	**+E/-W** m	**Direction** deg
	1980.00	0.00	0.00	139.94

Survey:	As Drilled	**Start Date:**	3/4/2002
Company:	RADIUS Directional Services	**Engineer:**	Radius Directional Services
Tool:		**Tied-to:**	From Surface

Survey: As Drilled

MD m	Incl deg	Azim deg	TVD m	+N/-S m	+E/-W m	VS m	DLS deg/30m	Build deg/30m	Turn deg/30m	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	
559.00	0.00	0.00	559.00	0.00	0.00	0.00	0.000	0.000	0.000	
564.76	0.30	196.50	564.76	-0.01	0.00	0.01	1.562	1.562	0.000	
594.66	0.30	246.10	594.66	-0.12	-0.10	0.03	0.253	0.000	49.766	
642.73	0.20	278.80	642.73	-0.16	-0.30	-0.07	0.106	-0.062	20.408	
690.88	0.60	257.00	690.88	-0.20	-0.62	-0.25	0.262	0.249	-13.583	
738.90	1.10	1.00	738.89	0.20	-0.86	-0.71	0.859	0.312	64.973	
767.70	2.10	14.30	767.68	0.99	-0.73	-1.22	1.104	1.042	13.854	
796.50	2.50	5.50	796.46	2.13	-0.54	-1.97	0.555	0.417	-9.167	
806.10	2.40	0.20	806.05	2.53	-0.52	-2.27	0.774	-0.312	-16.562	
815.60	2.00	354.70	815.54	2.90	-0.53	-2.56	1.427	-1.263	-17.368	
825.30	1.80	345.50	825.24	3.21	-0.58	-2.84	1.126	-0.619	-28.454	
834.80	1.60	356.80	834.73	3.49	-0.63	-3.08	1.230	-0.632	35.684	
854.10	1.20	338.60	854.03	3.95	-0.72	-3.48	0.922	-0.622	-28.290	
863.70	0.90	355.70	863.63	4.12	-0.76	-3.64	1.346	-0.937	53.437	
892.60	1.00	61.40	892.52	4.46	-0.56	-3.77	1.073	0.104	68.201	
902.20	1.70	110.60	902.12	4.45	-0.35	-3.63	4.036	2.187	153.750	
911.85	2.10	130.30	911.77	4.29	-0.08	-3.33	2.363	1.244	61.244	
921.40	2.80	140.40	921.31	4.00	0.20	-2.93	2.575	2.199	31.728	
931.11	2.80	133.70	931.01	3.65	0.53	-2.46	1.011	0.000	-20.700	
940.77	2.20	125.00	940.66	3.38	0.85	-2.04	2.200	-1.863	-27.019	
950.37	2.50	125.00	950.25	3.16	1.17	-1.66	0.937	0.937	0.000	
960.04	2.40	112.00	959.91	2.96	1.53	-1.28	1.748	-0.310	-40.331	
969.70	2.50	107.00	969.56	2.82	1.92	-0.92	0.733	0.311	-15.528	

RADIUS Directional Services
Survey Report

Company:	Anadarko Canada Corporation	**Date:** 3/21/2002	**Time:** 15:02:10	**Page:**	2
Field:	Netla	**Co-ordinate(NE) Reference:**	Site: Radius Job #27-1031, True North		
Site:	Radius Job #27-1031	**Vertical (TVD) Reference:**	SITE 653.5		
Well:	Anadarko Netla	**Section (VS) Reference:**	Well (0.00N,0.00E,139.94Azi)		
Wellpath:	A-68	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey: As Drilled

MD m	Incl deg	Azim deg	TVD m	+N/-S m	+E/-W m	VS m	DLS deg/30m	Build deg/30m	Turn deg/30m	Tool/Comment
979.31	3.00	109.90	979.16	2.67	2.36	-0.53	1.620	1.561	9.053	
988.90	3.20	111.60	988.74	2.49	2.84	-0.08	0.689	0.626	5.318	
998.50	3.90	107.40	998.32	2.29	3.40	0.43	2.332	2.187	-13.125	
1008.10	4.50	104.30	1007.89	2.10	4.08	1.02	2.004	1.875	-9.687	
1017.70	4.80	100.50	1017.46	1.94	4.84	1.63	1.343	0.937	-11.875	
1027.29	5.10	103.70	1027.01	1.76	5.65	2.29	1.275	0.938	10.010	
1036.89	5.40	102.50	1036.57	1.56	6.50	2.99	0.998	0.937	-3.750	
1046.54	5.60	103.20	1046.18	1.36	7.40	3.73	0.656	0.622	2.176	
1056.18	6.00	105.80	1055.77	1.11	8.35	4.52	1.489	1.245	8.091	
1065.90	6.90	105.20	1065.43	0.82	9.40	5.42	2.786	2.778	-1.852	
1075.55	7.70	106.40	1075.00	0.49	10.58	6.44	2.532	2.487	3.731	
1085.21	8.50	106.00	1084.56	0.11	11.89	7.57	2.491	2.484	-1.242	
1094.87	9.50	108.20	1094.11	-0.34	13.33	8.84	3.284	3.106	6.832	
1104.52	9.30	115.60	1103.63	-0.92	14.79	10.22	3.806	-0.622	23.005	
1114.17	9.50	123.10	1113.15	-1.69	16.16	11.70	3.856	0.622	23.316	
1123.72	9.80	127.70	1122.56	-2.62	17.46	13.25	2.598	0.942	14.450	
1133.31	10.40	130.00	1132.00	-3.68	18.77	14.90	2.261	1.877	7.195	
1142.96	10.90	131.90	1141.49	-4.85	20.12	16.66	1.899	1.554	5.907	
1152.54	11.40	132.80	1150.89	-6.10	21.49	18.49	1.658	1.566	2.818	
1162.13	11.90	137.10	1160.28	-7.46	22.86	20.42	3.133	1.564	13.452	
1171.71	12.90	137.10	1169.63	-8.97	24.26	22.48	3.132	3.132	0.000	
1181.33	13.50	137.10	1179.00	-10.58	25.75	24.67	1.871	1.871	0.000	
1190.99	13.80	137.10	1188.39	-12.25	27.30	26.95	0.932	0.932	0.000	
1200.64	13.90	140.50	1197.76	-13.99	28.82	29.26	2.549	0.311	10.570	
1210.29	14.30	144.70	1207.12	-15.85	30.25	31.60	3.414	1.244	13.057	
1219.96	14.60	148.90	1216.48	-17.87	31.57	34.00	3.381	0.931	13.030	
1229.61	15.10	151.20	1225.81	-20.02	32.80	36.43	2.403	1.554	7.150	
1239.23	16.10	151.00	1235.07	-22.28	34.05	38.97	3.123	3.119	-0.624	
1248.83	17.00	154.20	1244.28	-24.71	35.31	41.64	4.002	2.812	10.000	
1258.41	16.90	158.00	1253.44	-27.26	36.44	44.32	3.483	-0.313	11.900	
1268.07	17.10	160.00	1262.68	-29.90	37.45	46.99	1.919	0.621	6.211	
1277.74	16.10	162.40	1271.95	-32.51	38.34	49.56	3.761	-3.102	7.446	
1287.38	15.40	163.20	1281.22	-35.01	39.12	51.97	2.281	-2.178	2.490	
1297.04	14.50	165.00	1290.56	-37.41	39.80	54.25	3.145	-2.795	5.590	
1306.68	14.80	166.70	1299.88	-39.77	40.40	56.44	1.631	0.934	5.290	
1316.34	15.20	169.30	1309.21	-42.22	40.92	58.64	2.431	1.242	8.075	
1326.00	16.30	168.20	1318.51	-44.79	41.43	60.94	3.540	3.416	-3.416	
1335.63	16.50	164.70	1327.75	-47.43	42.07	63.37	3.140	0.623	-10.903	
1345.27	16.50	159.10	1336.99	-50.03	42.92	65.91	4.948	0.000	-17.427	
1354.91	15.80	155.60	1346.25	-52.50	43.95	68.47	3.731	-2.178	-10.892	
1364.55	16.20	150.40	1355.52	-54.87	45.15	71.05	4.629	1.245	-16.183	
1374.20	16.10	148.80	1364.79	-57.18	46.51	73.70	1.418	-0.311	-4.974	
1383.85	15.60	146.30	1374.07	-59.41	47.92	76.31	2.631	-1.554	-7.772	
1393.39	15.00	144.00	1383.27	-61.47	49.36	78.82	2.683	-1.887	-7.233	
1403.15	15.10	141.90	1392.70	-63.49	50.89	81.35	1.704	0.307	-6.455	
1412.79	14.80	142.20	1402.01	-65.45	52.42	83.83	0.964	-0.934	0.934	
1422.45	14.30	142.60	1411.36	-67.38	53.90	86.26	1.584	-1.553	1.242	
1432.10	13.50	144.00	1420.73	-69.24	55.28	88.57	2.698	-2.487	4.352	
1441.76	13.30	140.50	1430.13	-71.01	56.65	90.81	2.594	-0.621	-10.870	
1451.41	14.90	140.50	1439.49	-72.82	58.15	93.16	4.974	4.974	0.000	
1461.07	15.60	141.00	1448.81	-74.79	59.76	95.70	2.212	2.174	1.553	
1470.72	17.00	139.80	1458.07	-76.87	61.48	98.41	4.476	4.352	-3.731	
1480.33	17.60	141.80	1467.24	-79.09	63.29	101.26	2.637	1.873	6.243	

RADIUS Directional Services
Survey Report

Company:	Anadarko Canada Corporation	**Date:** 3/21/2002	**Time:** 15:02:10	**Page:**	3
Field:	Netla	**Co-ordinate(NE) Reference:**	Site: Radius Job #27-1031, True North		
Site:	Radius Job #27-1031	**Vertical (TVD) Reference:**	SITE 653.5		
Well:	Anadarko Netla	**Section (VS) Reference:**	Well (0.00N,0.00E,139.94Azi)		
Wellpath:	A-68	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey: As Drilled

MD m	Incl deg	Azim deg	TVD m	+N/-S m	+E/-W m	VS m	DLS deg/30m	Build deg/30m	Turn deg/30m	Tool/Comment
1490.01	17.90	143.50	1476.46	-81.43	65.08	104.21	1.856	0.930	5.269	
1499.66	18.40	143.50	1485.63	-83.85	66.87	107.21	1.554	1.554	0.000	
1509.30	18.80	145.40	1494.77	-86.35	68.65	110.28	2.260	1.245	5.913	
1518.90	18.80	141.10	1503.86	-88.83	70.50	113.36	4.330	0.000	-13.437	
1528.55	19.10	137.10	1512.99	-91.20	72.56	116.49	4.144	0.933	-12.435	
1538.19	19.00	136.30	1522.10	-93.49	74.71	119.64	0.870	-0.311	-2.490	
1547.44	19.00	135.00	1530.84	-95.64	76.82	122.64	1.373	0.000	-4.216	
1557.42	19.00	134.10	1540.28	-97.92	79.13	125.87	0.881	0.000	-2.705	
1567.08	18.80	135.00	1549.42	-100.11	81.36	128.99	1.098	-0.621	2.795	
1576.75	18.60	138.70	1558.58	-102.37	83.48	132.08	3.732	-0.620	11.479	
1586.39	18.40	139.50	1567.72	-104.69	85.49	135.14	1.006	-0.622	2.490	
1596.04	18.30	140.90	1576.88	-107.02	87.43	138.18	1.405	-0.311	4.352	
1605.70	17.70	143.10	1586.07	-109.37	89.27	141.16	2.816	-1.863	6.832	
1615.37	17.10	144.40	1595.30	-111.70	90.98	144.05	2.218	-1.861	4.033	
1625.01	17.50	143.50	1604.50	-114.02	92.67	146.91	1.498	1.245	-2.801	
1634.66	17.30	141.70	1613.71	-116.31	94.42	149.79	1.785	-0.622	-5.596	
1644.33	17.30	138.50	1622.94	-118.52	96.26	152.66	2.952	0.000	-9.928	
1653.97	17.50	138.00	1632.14	-120.67	98.18	155.54	0.777	0.622	-1.556	
1663.64	18.10	140.00	1641.35	-122.90	100.12	158.50	2.657	1.861	6.205	
1673.29	19.00	139.10	1650.49	-125.23	102.11	161.57	2.936	2.798	-2.798	
1682.90	19.70	137.10	1659.56	-127.60	104.24	164.75	3.009	2.185	-6.243	
1692.51	19.70	136.20	1668.61	-129.96	106.46	167.99	0.947	0.000	-2.810	
1702.11	19.20	137.30	1677.66	-132.29	108.65	171.18	1.937	-1.562	3.437	
1711.70	18.40	138.50	1686.74	-134.58	110.73	174.27	2.780	-2.503	3.754	
1721.28	17.70	140.50	1695.85	-136.84	112.65	177.23	2.927	-2.192	6.263	
1730.84	17.30	141.70	1704.97	-139.07	114.46	180.11	1.690	-1.255	3.766	
1740.44	17.30	139.70	1714.13	-141.28	116.27	182.96	1.859	0.000	-6.250	
1750.02	18.10	137.00	1723.26	-143.46	118.20	185.87	3.589	2.505	-8.455	
1759.62	17.90	139.20	1732.39	-145.66	120.19	188.84	2.214	-0.625	6.875	
1769.24	17.70	139.70	1741.55	-147.90	122.10	191.78	0.785	-0.624	1.559	
1778.85	18.00	140.80	1750.70	-150.16	123.98	194.72	1.409	0.937	3.434	
1788.51	18.10	142.10	1759.88	-152.50	125.85	197.72	1.289	0.311	4.037	
1798.06	18.00	144.20	1768.96	-154.87	127.62	200.67	2.068	-0.314	6.597	
1807.66	16.90	143.10	1778.12	-157.19	129.33	203.54	3.589	-3.437	-3.437	
1817.30	16.20	143.10	1787.36	-159.39	130.97	206.28	2.178	-2.178	0.000	
1826.89	15.10	141.20	1796.59	-161.43	132.56	208.87	3.796	-3.441	-5.944	
1836.47	14.50	138.70	1805.86	-163.30	134.13	211.31	2.744	-1.879	-7.829	
1846.07	13.50	137.80	1815.17	-165.04	135.68	213.64	3.198	-3.125	-2.812	
1855.63	12.80	135.20	1824.48	-166.61	137.18	215.81	2.875	-2.197	-8.159	
1865.22	12.10	134.30	1833.84	-168.07	138.64	217.87	2.272	-2.190	-2.815	
1874.80	12.60	134.10	1843.20	-169.50	140.11	219.90	1.571	1.566	-0.626	
1884.42	12.70	137.00	1852.59	-171.00	141.59	222.00	2.005	0.312	9.044	
1894.00	12.60	136.80	1861.94	-172.53	143.02	224.10	0.342	-0.313	-0.626	
1904.62	13.10	136.40	1872.29	-174.25	144.64	226.46	1.435	1.412	-1.130	
1913.25	12.70	135.10	1880.70	-175.63	145.99	228.38	1.718	-1.390	-4.519	
1922.80	12.50	133.90	1890.02	-177.09	147.47	230.45	1.035	-0.628	-3.770	
1932.42	12.10	133.20	1899.42	-178.50	148.96	232.49	1.331	-1.247	-2.183	
1941.99	11.90	133.50	1908.78	-179.87	150.41	234.47	0.657	-0.627	0.940	
1951.57	11.00	135.20	1918.17	-181.20	151.77	236.36	3.010	-2.818	5.324	
1961.15	11.00	134.40	1927.58	-182.48	153.06	238.18	0.478	0.000	-2.505	
1980.34	11.60	130.90	1946.39	-185.03	155.83	241.91	1.424	0.938	-5.472	
1999.50	10.10	132.00	1965.21	-187.41	158.53	245.47	2.371	-2.349	1.722	
2013.00	9.20	130.80	1978.52	-189.91	160.23	247.71	2.049	-2.000	-2.667	

RADIUS Directional Services
Survey Report

Company:	Anadarko Canada Corporation	**Date:**	3/21/2002	**Time:** 15:02:10	**Page:** 4
Field:	Netla	**Co-ordinate(NE) Reference:**	Site: Radius Job #27-1031, True North		
Site:	Radius Job #27-1031	**Vertical (TVD) Reference:**	SITE 653.5		
Well:	Anadarko Netla	**Section (VS) Reference:**	Well (0.00N,0.00E,139.94Azi)		
Wellpath:	A-68	**Survey Calculation Method:**	Minimum Curvature	**Db:** Sybase	

Survey: As Drilled

MD m	Incl deg	Azim deg	TVD m	+N/-S m	+E/-W m	VS m	DLS deg/30m	Build deg/30m	Turn deg/30m	Tool/Comment
2078.00	4.87	125.02	2043.02	-193.89	166.43	255.51	2.022	-1.998	-2.668	

APPENDIX 4

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/22
Final Test Date: 2002/03/28

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT

Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
1	2002/03/22	18:00:00	ARRIVE ON LOCATION, SPOT AND RIG IN TEST EQUIPMENT														
2		20:30:00	SECURE WELL AND EQUIPMENT FOR THE NIGHT														
3	2002/03/23	07:00:00	ARRIVE ON LOCATION, HOLD SAFETY MEETING														
4			WIRELINE ON LOCATION TO PULL PLUG.														
5		15:15:00	RIG IN SWAB EQUIPMENT AND RUN IN HOLE														
6			SWAB TO P-TANK.														
7		16:45:00				0.000	0	0.0	0.0	0.000	0.000	0.000	0.0	0.000	0.000	0.000	0.000
8		17:00:00										1.500	100.0	0.000	0.000	1.500	1.500
9		17:15:00	100									5.300	100.0	0.000	0.000	5.300	6.800
10		17:30:00	800									7.170	100.0	0.000	0.000	7.170	13.970
11			SHUT IN WELL FOR STATIC GRADIENT														
12		17:30:00				0.000	0	0.0	0.0	0.000	0.000	0.000	0.0				
13		18:40:00	4200			0.000	0	0.0	0.0	0.000	0.000	0.000	0.0	0.000	0.000	0.000	13.970
14			OPEN WELL, ON A 12.70 mm (32/64) CHOKE.														
15			FLUID TO SURFACE.														
16		18:45:00	800	0								1.390	100.0	0.000	0.000	1.390	15.360
17		19:00:00	1800									0.760	100.0	0.000	0.000	0.760	16.120
18		19:15:00	3800									3.060	100.0	0.000	0.000	3.060	19.180
19		19:30:00	3700									2.820	100.0	0.000	0.000	2.820	22.000
20		19:40:00	3700									0.360	100.0	0.000	0.000	0.360	22.360
21			TRANSFER FLUID TO 400 bbL TANK.														
22		20:00:00	3900		20.0	0.000	0	0.0	0.0	0.000	0.000	2.050	100.0	0.000	0.000	2.050	24.410
23			METER IN SERVICE WITH A 50.80 mm ORIFICE PLATE.														
24		20:30:00	4000		20.0	50.800	4	7.0	28.0	13.895	0.289	4.440	100.0	0.000	0.000	4.440	28.850
25			SALINITY = 6000 ppm, PH = 7.														
26		21:00:00	4000		22.0	50.800	4	7.0	30.0	13.850	0.578	4.130	100.0	0.000	0.000	4.130	32.980
27			SALINITY = 6000 ppm, PH = 7. TRANSFER FLUID TO 400 bbl TANK.														
28			INCREASE BACK PRESSURE ON P-TANK, CSG = VAC.														
29		21:12:00	STOP TRANSFERING FLUID TO 400 bbl TANK, DECREASE BACK PRESSURE ON P-TANK.														
30		21:30:00	4000		22.0	50.800	4	7.5	30.0	14.349	0.872	4.700	100.0	0.000	0.000	4.700	37.680
31		22:00:00	4000		24.0	50.800	4	7.7	32.0	14.545	1.173	4.690	100.0	0.000	0.000	4.690	42.370
32		22:00:00	SALINITY = 2000 ppm, PH = 7, CSG = VAC.														
33		22:30:00	4000		25.0	50.800	4	8.0	31.0	14.809	1.479	4.710	100.0	0.000	0.000	4.710	47.080
34		22:30:00	START TRANSFERING FLUID TO 400 bbl TANK, INCREASE BACK PRESSURE ON P-TANK.														
35		23:00:00	4000		25.0	50.800	4	8.0	31.0	14.809	1.788	4.510	100.0	0.000	0.000	4.510	51.590

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/22
Final Test Date: 2002/03/28

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT
Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
36	2002/03/23		SALINITY = 4000 ppm, PH = 7, CSG = VAC.														
37		23:30:00	4000		25.0	50.800	4	8.2	31.0	15.046	2.099	5.000	100.0	0.000	0.000	5.000	56.590
38	2002/03/24	00:00:00	4000		25.0	50.800	4	8.5	34.0	15.204	2.414	5.210	100.0	0.000	0.000	5.210	61.800
39			SALINITY = 3000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
40			INCREASE BACK PRESSURE ON P-TANK, CSG = VAC.														
41		00:30:00	4000		25.0	50.800	4	8.7	34.0	15.434	2.733	9.490	100.0	0.000	0.000	9.490	71.290
42		01:00:00	4000		25.0	50.800	4	9.0	34.0	15.651	3.057	3.670	100.0	0.000	0.000	3.670	74.960
43			SALINITY = 3000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
44			INCREASE BACK PRESSURE ON P-TANK, CSG = VAC.														
45		01:30:00	4000		25.0	50.800	4	9.2	34.0	15.874	3.385	4.280	100.0	0.000	0.000	4.280	79.240
46		02:00:00	4000		25.0	50.800	4	9.5	34.0	16.095	3.718	4.770	100.0	0.000	0.000	4.770	84.010
47			SALINITY = 2000 ppm, PH = 7, CSG = VAC.														
48		02:30:00	4000		27.0	50.800	4	9.7	34.0	16.313	4.056	4.940	100.0	0.000	0.000	4.940	88.950
49			TRANSFER FLUID TO 400 bbl, INCREASE BACK PRESSURE ON P-TANK.														
50			DECREASE BACK PRESSURE ON P-TANK.														
51		03:00:00	4000		28.0	50.800	4	10.0	34.0	16.529	4.398	4.770	100.0	0.000	0.000	4.770	93.720
52			SALINITY = 3000 ppm, PH = 7, CSG = VAC.														
53		03:30:00	4000		30.0	50.800	4	10.0	35.0	16.502	4.742	5.500	100.0	0.000	0.000	5.500	99.220
54		04:00:00	4050		32.0	50.800	4	10.2	36.0	16.687	5.087	4.540	100.0	0.000	0.000	4.540	103.760
55			SALINITY = 1000 ppm, PH = 7, TRANSFER FLUID TO 400 bbl TANK.														
56			INCREASE BACK PRESSURE ON P-TANK, CSG = VAC.														
57		04:30:00	4050		32.0	50.800	4	10.5	36.0	16.898	5.437	4.560	100.0	0.000	0.000	4.560	108.320
58		05:00:00	4050		32.0	50.800	4	10.5	36.0	16.898	5.789	5.330	100.0	0.000	0.000	5.330	113.650
59			SALINITY = 2000 ppm, PH = 7, CSG = VAC.														
60		05:30:00	4100		32.0	50.800	4	11.0	36.0	17.311	6.146	5.520	100.0	0.000	0.000	5.520	119.170
61			TRANSFER FLUID TO 400 bbL TANK.														
62		06:00:00	4200		32.0	50.800	4	11.0	34.0	17.368	6.507	4.810	100.0	0.000	0.000	4.810	123.980
63			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
64		06:30:00	4150		32.0	50.800	17	10.0	36.0	17.507	6.870	4.880	100.0	0.000	0.000	4.880	128.860
65		07:00:00	4200		32.0	50.800	17	10.0	36.0	17.507	7.235	4.760	100.0	0.000	0.000	4.760	133.620
66		07:00:00	TRANSFERFLUID TO 400 bbL TANK, TAKE CSG OFF OF VAC.														
67		07:30:00	4200	0	34.0	50.800	7	11.9	37.0	18.343	7.608	5.020	100.0	0.000	0.000	5.020	138.640
68		08:00:00	4200		34.0	50.800	7	12.2	38.0	18.512	7.992	5.700	100.0	0.000	0.000	5.700	144.340
69			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
70		08:30:00	4200		34.0	50.800	7	12.7	40.0	18.842	8.381	4.930	100.0	0.000	0.000	4.930	149.270

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/22
Final Test Date: 2002/03/28

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT
Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
71	2002/03/24		TRANSFER FLUID TO 400 bbL TANK.														
72		09:00:00	4200		34.0	50.800	7	12.7	39.0	18.873	8.774	5.440	100.0	0.000	0.000	5.440	154.710
73			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
74		09:30:00	4200		34.0	50.800	7	12.9	40.0	19.035	9.169	5.570	100.0	0.000	0.000	5.570	160.280
75		10:00:00	4100		37.0	50.800	7	12.9	40.0	19.035	9.566	5.250	100.0	0.000	0.000	5.250	165.530
76			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
77		10:05:00										0.690	100.0	0.000	0.000	0.690	166.220
78			TRANSFER FLUID TO 400 bbL TANK.														
79		10:30:00	4100		36.0	50.800	7	13.9	40.0	19.781	9.970	4.840	100.0	0.000	0.000	4.840	171.060
80		11:00:00	4000		34.0	50.800	7	13.9	40.0	19.781	10.382	5.390	100.0	0.000	0.000	5.390	176.450
81			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
82		11:30:00	4000		37.0	50.800	7	13.9	40.0	19.781	10.794	5.740	100.0	0.000	0.000	5.740	182.190
83			TRANSFER FLUID TO 400 bbL TANK.														
84		12:00:00	4000		38.0	50.800	7	14.2	41.0	19.935	11.208	5.900	100.0	0.000	0.000	5.900	188.090
85			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
86		12:15:00										3.190	100.0	0.000	0.000	3.190	191.280
87			TRANSFER FLUID TO 400 bbL TANK.														
88		13:00:00	4000		38.0	50.800	4	15.4	41.0	20.540	12.051	6.330	100.0	0.000	0.000	6.330	197.610
89			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
90		13:30:00	4000		38.0	50.800	4	15.4	40.0	20.572	12.479	5.350	100.0	0.000	0.000	5.350	202.960
91		13:40:00										2.290	100.0	0.000	0.000	2.290	205.250
92			TRANSFER FLUID TO 400 bbL TANK.														
93		14:00:00	4100		38.0	50.800	4	15.9	40.0	20.921	12.912	4.350	100.0	0.000	0.000	4.350	209.600
94			TRANSFER FLUID TO 400 bbL TANK., SALINITY = 0 ppm, PH = 7, CSG = VAC.														
95		14:30:00	4200		38.0	50.800	4	15.9	41.0	20.887	13.347	6.420	100.0	0.000	0.000	6.420	216.020
96		15:00:00	4200		38.0	50.800	4	16.7	42.0	21.360	13.787	5.350	100.0	0.000	0.000	5.350	221.370
97			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
98		15:30:00	4300		41.0	50.800	4	16.9	42.0	21.529	14.234	5.220	100.0	0.000	0.000	5.220	226.590
99			TRANSFER FLUID TO 400 bbL TANK.														
100		16:00:00	4300		41.0	50.800	4	17.2	42.0	21.697	14.684	5.630	100.0	0.000	0.000	5.630	232.220
101			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
102		16:30:00	4400		41.0	50.800	4	17.4	42.0	21.864	15.138	5.440	100.0	0.000	0.000	5.440	237.660
103		17:00:00	4400		41.0	50.800	4	17.7	44.0	21.960	15.594	5.620	100.0	0.000	0.000	5.620	243.280
104			TRANSFER FLUID TO 400 bbL TANK., SALINITY = 0 ppm, PH = 7, CSG = VAC.														
105		17:30:00	4500		41.0	50.800	4	17.9	43.0	22.159	16.054	6.420	100.0	0.000	0.000	6.420	249.700

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/22
Final Test Date: 2002/03/28

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT

Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
106	2002/03/24	18:00:00	4600		40.0	50.800	4	18.2	42.0	22.358	16.518	4.960	100.0	0.000	0.000	4.960	254.660
107		18:00:00	SALINITY = 0 ppm, PH = 7, CSG = VAC.														
108		18:30:00	4600		39.0	50.800	4	18.7	42.0	22.683	16.987	5.440	100.0	0.000	0.000	5.440	260.100
109			TRANSFER FLUID TO 400 bbL TANK.														
110		19:00:00	4600		38.0	50.800	4	18.4	41.0	22.557	17.458	6.700	100.0	0.000	0.000	6.700	266.800
111			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
112		19:30:00	4600		39.0	50.800	4	18.7	41.0	22.719	17.930	5.430	100.0	0.000	0.000	5.430	272.230
113		20:00:00	4600		39.0	50.800	4	21.5	41.0	24.482	18.421	4.610	100.0	0.000	0.000	4.610	276.840
114			TRANSFER FLUID TO 400 bbL TANK., SALINITY = 0 ppm, PH = 7, CSG = VAC.														
115		20:30:00	4625		39.0	50.800	4	19.9	41.0	23.512	18.921	5.400	100.0	0.000	0.000	5.400	282.240
116		21:00:00	4625		39.0	50.800	4	20.7	41.0	23.982	19.416	5.680	100.0	0.000	0.000	5.680	287.920
117			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
118		21:30:00	4625		39.0	50.800	4	20.9	42.0	24.099	19.917	5.570	100.0	0.000	0.000	5.570	293.490
119			TRANSFER FLUID TO 400 bbL TANK.														
120		22:00:00	4625		38.0	50.800	4	20.9	42.0	24.099	20.419	6.240	100.0	0.000	0.000	6.240	299.730
121			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
122		22:30:00	4650		38.0	50.800	4	21.2	42.0	24.253	20.923	5.620	100.0	0.000	0.000	5.620	305.350
123		23:00:00	4650		39.0	50.800	4	21.4	43.0	24.362	21.429	5.040	100.0	0.000	0.000	5.040	310.390
124			TRANSFER FLUID TO 400 bbL TANK. SALINITY = 0 ppm, PH = 7, CSG = VAC.														
125		23:30:00	4675		39.0	50.800	4	21.7	42.0	24.553	21.939	5.720	100.0	0.000	0.000	5.720	316.110
126	2002/03/25	00:00:00	4700		39.0	50.800	4	21.9	42.0	24.705	22.452	5.900	100.0	0.000	0.000	5.900	322.010
127			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
128		00:30:00	4700		39.0	50.800	4	22.2	42.0	24.857	22.968	5.020	100.0	0.000	0.000	5.020	327.030
129			TRANSFER FLUID TO 400 bbL TANK.														
130		01:00:00	4700		39.0	50.800	4	22.2	42.0	24.857	23.486	7.620	100.0	0.000	0.000	7.620	334.650
131			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
132		01:30:00	4725		38.0	50.800	4	22.4	42.0	25.007	24.005	5.260	100.0	0.000	0.000	5.260	339.910
133		02:00:00	4725		38.0	50.800	4	22.9	42.0	25.307	24.529	5.470	100.0	0.000	0.000	5.470	345.380
134			TRANSFER FLUID TO 400 bbL TANK., SALINITY = O ppm, PH = 7, CSG = VAC.														
135		02:30:00	4750		39.0	50.800	4	22.9	42.0	25.307	25.057	5.930	100.0	0.000	0.000	5.930	351.310
136		03:00:00	4775		38.0	50.800	4	23.2	42.0	25.456	25.585	5.490	100.0	0.000	0.000	5.490	356.800
137			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
138		03:30:00	4775		38.0	50.800	4	23.2	42.0	25.456	26.116	5.010	100.0	0.000	0.000	5.010	361.810
139			TRANSFER FLUID TO 400 bbL TANK.														
140		04:00:00	4800		39.0	50.800	4	23.7	42.0	25.752	26.649	5.600	100.0	0.000	0.000	5.600	367.410

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/22
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FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT
Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
141	2002/03/25		SALINITY = 0 ppm, PH = 7, CSG = VAC.														
142		04:30:00	4800		39.0	50.800	4	23.7	42.0	25.752	27.186	5.820	100.0	0.000	0.000	5.820	373.230
143		05:00:00	4825		39.0	50.800	4	23.9	42.0	25.893	27.724	5.570	100.0	0.000	0.000	5.570	378.800
144			TRANSFER FLUID TO 400 bbL TANK., SALINITY = 0 ppm, PH = 7, CSG = VAC.														
145		05:30:00	4850		39.0	50.800	4	24.1	42.0	26.039	28.265	6.260	100.0	0.000	0.000	6.260	385.060
146		06:00:00	4850		38.0	50.800	4	24.4	42.0	26.185	28.809	5.380	100.0	0.000	0.000	5.380	390.440
147			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
148		06:30:00	4900		39.0							5.250	100.0	0.000	0.000	5.250	395.690
149			TRANSFER FLUID TO 400 bbL TANK.														
150		07:00:00	4900		39.0	50.800	4	24.9	41.0	26.518	29.907	5.770	100.0	0.000	0.000	5.770	401.460
151			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
152		07:30:00	5000		39.0	50.800	4	25.4	41.0	26.806	30.462	5.070	100.0	0.000	0.000	5.070	406.530
153		08:00:00	5200		38.0	50.800	4	25.9	41.0	27.092	31.023	5.020	100.0	0.000	0.000	5.020	411.550
154			TRANSFER FLUID TO 400 bbL TANK. SALINITY = 0 ppm, PH = 7, CSG = VAC.														
155		08:30:00	5200		38.0	50.800	4	23.9	41.0	25.934	31.576	5.560	100.0	0.000	0.000	5.560	417.110
156		09:00:00	5200		38.0	50.800	4	24.6	41.0	26.373	32.121	5.710	100.0	0.000	0.000	5.710	422.820
157			SALINITY = 0 ppm, PH = 7, CSG = VAC.														
158		09:30:00	5200		38.0	50.800	4	24.9	41.0	26.518	32.672	5.460	100.0	0.000	0.000	5.460	428.280
159			TRANSFER FLUID TO 400 bbL TANK.														
160		10:00:00	5200		38.0	50.800	4	26.9	41.0	27.653	33.236	5.870	100.0	0.000	0.000	5.870	434.150
161		10:30:00	5300		39.0	50.800	4	27.1	41.0	27.794	33.813	5.000	100.0	0.000	0.000	5.000	439.150
162		11:00:00	5300		40.0	50.800	4	27.1	42.0	27.749	34.392	5.540	100.0	0.000	0.000	5.540	444.690
163			TRANSFER FLUID TO 400 bbL TANK.SALINITY = 0 ppm, PH = 7, CSG = VAC.														
164		11:30:00	5400		39.0	50.800	4	26.9	42.0	27.609	34.969	6.640	100.0	0.000	0.000	6.640	451.330
165		11:30:00	START TRANSFERING FLUID TO 400 bbl TANK.														
166		12:00:00	5400		39.0	50.800	4	27.9	42.0	28.167	35.550	5.320	100.0	0.000	0.000	5.320	456.650
167		12:00:00	SALINITY = 0 ppm, PH = 7, CSG = VAC, 0% H2S.														
168		12:30:00	5500		41.0	50.800	4	28.9	43.0	28.667	36.142	5.700	100.0	0.000	0.000	5.700	462.350
169		13:00:00	5500		41.0	50.800	4	29.1	43.0	28.803	36.740	5.660	100.0	0.000	0.000	5.660	468.010
170			TRANSFER FLUID TO 400 bbL TANK.,SALINITY = 0 ppm, PH = 7, CSG = VAC, INCREASE CHOKE TO 25.80 mm.														
171		13:30:00	2700		44.0	50.800	248	25.9	50.0	48.512	37.548	8.740	100.0	0.000	0.000	8.740	476.750
172		13:30:00	SALINITY = 0 ppm, PH = 7, CSG = VAC														
173		13:45:00										8.240	100.0	0.000	0.000	8.240	484.990
174			TRANSFER FLUID TO 400 bbL TANK.,SALINITY = 0 ppm, PH = 7, CSG = VAC.														
175		14:00:00	3000	0	47.0	50.800	414	26.9	54.0	59.722	38.673	4.540	100.0	0.000	0.000	4.540	489.530

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FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT

Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
176	2002/03/25		TRANSFER FLUID TO 400 bbL TANK.SALINITY = 0 ppm, PH = 7, CSG = VAC.														
177			DECREASE CHOKE TO 12.70 mm (32/64).														
178		14:30:00	5600		46.0	50.800	21	23.9	50.0	27.545	39.582	11.230	100.0	0.000	0.000	11.230	500.760
179			CSG = VAC.														
180		15:00:00	5800		42.0	50.800	4	30.9	51.0	29.377	40.175	6.090	100.0	0.000	0.000	6.090	506.850
181			TRANSFER FLUID TO 400 bbL TANK.SALINITY = 0 ppm, PH = 7, CSG = VAC.														
182		15:30:00	5900		42.0	50.800	14	38.8	51.0	34.865	40.844	6.630	100.0	0.000	0.000	6.630	513.480
183		16:00:00	5600		43.0	50.800	21	45.8	44.0	39.779	41.622	5.350	100.0	0.000	0.000	5.350	518.830
184			INCREASE BACK PRESSURE ON P-TANK, SALINITY = 0 ppm, PH = 7.														
185		16:30:00	6650	5	42.0	50.800	110	37.1	44.0	46.021	42.516	5.870	100.0	0.000	0.000	5.870	524.700
186			TRANSFER FLUID TO 400 bbL TANK. INCREASE CHOKE TO A 19.05 mm (48/64).														
187		17:00:00	5200	5	46.0	50.800	448	41.8	50.0	77.761	43.805	9.470	100.0	0.000	0.000	9.470	534.170
188			SALINITY = 0 ppm, PH = 7.														
189		17:30:00	5600	5	46.0	50.800	489	45.6	51.0	84.084	45.491	9.340	100.0	0.000	0.000	9.340	543.510
190			START TRANSFERING FLUID TO 400 bbl TANK,														
191		18:00:00	6000	5	46.0	50.800	620	54.3	54.0	101.139	47.420	9.720	100.0	0.000	0.000	9.720	553.230
192			START TRANSFERING FLUID TO 400 bbl TANK, SALINITY = 0 ppm, PH = 7.														
193		18:30:00	2900	5	50.0	50.800	903	58.8	54.0	124.236	49.768	13.520	100.0	0.000	0.000	13.520	566.750
194			SHUT IN WELL, METER OUT OF SERVICE.														
195		18:30:00				0.000	0	0.0	0.0	0.000	49.768	0.000	0.0				
196		18:38:00	9000	5													
197			OPEN WELL ON A 50.80 mm CHOKE.														
198		18:45:00				0.000	0	0.0	0.0	0.000	49.768	0.000	0.0	0.000	0.000	0.000	566.750
199			METER IN SERVICE WITH A 69.85 mm ORIFICE PLATE, START tRANSFERING FLUID TO 400 bbL TANK.														
200		18:55:00										3.210	100.0	0.000	0.000	3.210	569.960
201		19:00:00	6900	5	48.0	69.850	434	37.9	52.0	150.399	51.335	6.940	100.0	0.000	0.000	6.940	576.900
202			SALINITY = 0 ppm, PH = 7.														
203		19:30:00	7000	5	48.0	69.850	448	39.6	51.0	156.132	54.528	11.990	100.0	0.000	0.000	11.990	588.890
204			START TRANSFERING FLUID TO 400 bbl TANK.														
205		20:00:00	7200	5	48.0	69.850	524	42.3	51.0	172.387	57.950	12.740	100.0	0.000	0.000	12.740	601.630
206			SALINITY = 0 ppm, PH = 7.														
207		20:15:00										5.900	100.0	0.000	0.000	5.900	607.530
208			START TRANSFERING FLUID TO 400 bbl TANK.														
209		20:30:00	7400	5	46.0	69.850	558	45.6	51.0	183.796	61.660	6.140	100.0	0.000	0.000	6.140	613.670
210		21:00:00	7450	5	46.0	69.850	614	48.1	51.0	196.718	65.624	11.490	100.0	0.000	0.000	11.490	625.160

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Field Measurements

ANADARKO NETLA 'A'
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Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
211	2002/03/25		SALINITY = 0 ppm, PH = 7, START TRANSFERING FLUID TO 400 bbl TANK.														
212		21:30:00	7600	5	47.0	69.850	655	50.3	51.0	207.036	69.829	12.280	100.0	0.000	0.000	12.280	637.440
213		21:45:00										5.040	100.0	0.000	0.000	5.040	642.480
214			START TRANSFERING FLUID TO 400 bbL TANK.														
215		22:00:00	7800	5	48.0	69.850	683	52.3	50.0	215.393	74.230	6.190	100.0	0.000	0.000	6.190	648.670
216			SALINITY = 0 ppm, PH = 7.														
217		22:30:00	7825	5	48.0	69.850	724	54.5	49.0	226.098	78.829	10.230	100.0	0.000	0.000	10.230	658.900
218			START TRANSFERING FLUID TO 400 bbl TANK.														
219		23:00:00	7950	5	47.0	69.850	765	58.3	49.0	235.398	83.636	10.940	100.0	0.000	0.000	10.940	669.840
220			SALINITY = 0 ppm, PH = 7.														
221		23:15:00										5.180	100.0	0.000	0.000	5.180	675.020
222			START TRANSFERING FLUID TO 400 bbl TANK.														
223		23:30:00	8025	5	47.0	69.850	814	60.0	49.0	250.040	88.693	5.130	100.0	0.000	0.000	5.130	680.150
224	2002/03/26	00:00:00	8200	5	47.0	69.850	848	63.0	49.0	261.038	94.016	11.900	100.0	0.000	0.000	11.900	692.050
225			START TRANSFERING FLUID TO 400 bbl TANK, SALINITY = 0 ppm, PH = 7, H2S = 0 ppm.														
226		00:30:00	8250	5	48.0	69.850	883	64.7	48.0	269.972	99.548	10.510	100.0	0.000	0.000	10.510	702.560
227		01:00:00	8300	5	48.0	69.850	896	67.0	48.0	276.409	105.240	8.820	100.0	0.000	0.000	8.820	711.380
228			START TRANSFERING FLUID TO 400 bbl TANK.														
229			SALINITY = 0 ppm, PH = 7, DECREASE BACK PRESSURE ON P-TANK.														
230		01:30:00	8300	5	47.0	69.850	883	69.2	48.0	279.323	111.030	9.450	100.0	0.000	0.000	9.450	720.830
231		01:45:00										4.670	100.0	0.000	0.000	4.670	725.500
232			START TRANSFERING FLUID TO 400 bbl TANK.														
233		02:00:00	8300	5	46.0	69.850	889	70.2	47.0	282.690	116.884	1.970	100.0	0.000	0.000	1.970	727.470
234			SALINITY = 0 ppm, PH = 7.														
235		02:30:00	8400	5	47.0	69.850	896	70.7	47.0	284.718	122.795	9.490	100.0	0.000	0.000	9.490	736.960
236			START TRANSFERING FLUID TO 400 bbl TANK.														
237		03:00:00	8425	5	47.0	69.850	917	71.5	47.0	289.239	128.773	9.890	100.0	0.000	0.000	9.890	746.850
238			SALINITY = 0 ppm, PH = 7.														
239		03:15:00										4.470	100.0	0.000	0.000	4.470	751.320
240			START TRANSFERING FLUID TO 400 bbl TANK.														
241		03:30:00	8425	5	47.0	69.850	917	72.0	47.0	290.268	134.810	4.830	100.0	0.000	0.000	4.830	756.150
242		04:00:00	8450	5	46.0	69.850	924	72.2	47.0	291.782	140.873	9.410	100.0	0.000	0.000	9.410	765.560
243			START TRANSFERING FLUID TO 400 bbl TANK, SALINITY = 0 ppm, PH = 7.														
244		04:30:00	8450	5	46.0	69.850	924	72.7	47.0	292.809	146.962	9.710	100.0	0.000	0.000	9.710	775.270
245		05:00:00	8450	5	46.0	69.850	931	73.0	47.0	294.324	153.078	8.010	100.0	0.000	0.000	8.010	783.280

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FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT

Job Number: 1289

	Date	Clock Time	' Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
246	2002/03/26		START TRANSFERING FLUID TO 400 bbl TANK, SALINITY = 0 ppm, PH = 7.														
247		05:30:00	8475	5	46.0	69.850	931	74.0	47.0	296.352	159.231	9.450	100.0	0.000	0.000	9.450	792.730
248		05:45:00										4.660	100.0	0.000	0.000	4.660	797.390
249			START TRANSFERING FLUID TO 400 bbl TANK.														
250		06:00:00	8475	5	46.0	69.850	952	73.7	47.0	298.845	165.431	4.970	100.0	0.000	0.000	4.970	802.360
251			SALINITY = 0 ppm, PH = 7, H2S = 0 ppm.														
252		06:30:00	8600	5	46.0	69.850	952	73.7	47.0	298.845	171.657	9.050	100.0	0.000	0.000	9.050	811.410
253			START TRANSFERING FLUID TO 400 bbl TANK.														
254		07:00:00	8600	5	45.0	69.850	952	74.5	46.0	300.884	177.904	9.620	100.0	0.000	0.000	9.620	821.030
255			SALINITY = 0 ppm, PH = 7.														
256		07:30:00	8600	5	45.0	69.850	952	74.5	46.0	300.884	184.173	7.740	100.0	0.000	0.000	7.740	828.770
257			START TRANSFERING FLUID TO 400 bbl TANK.														
258		08:00:00	8600	5	46.0	69.850	952	74.7	46.0	301.399	190.446	9.910	100.0	0.000	0.000	9.910	838.680
259			SALINITY = 0 ppm, PH = 7.														
260		08:18:00										5.270	100.0	0.000	0.000	5.270	843.950
261			START TRANSFERING FLUID TO 400 bbl TANK.														
262		08:30:00	8600	5	45.0	69.850	958	75.7	47.0	303.813	196.751	3.780	100.0	0.000	0.000	3.780	847.730
263		09:00:00	8700	5	48.0	69.850	979	75.7	47.0	306.821	203.112	9.410	100.0	0.000	0.000	9.410	857.140
264			START TRANSFERING FLUID TO 400 bbl TANK, SALINITY = 0 ppm, PH = 7.														
265		09:30:00	8700	5	48.0	69.850	986	76.7	47.0	309.860	209.535	8.410	100.0	0.000	0.000	8.410	865.550
266		09:48:00										5.170	100.0	0.000	0.000	5.170	870.720
267			START TRANSFERING FLUID TO 400 bbl TANK.														
268		10:00:00	8800	5	50.0	69.850	994	77.4	46.0	313.063	216.024	3.880	100.0	0.000	0.000	3.880	874.600
269			SALINITY = 0 ppm, PH = 7.														
270		10:16:00										4.700	100.0	0.000	0.000	4.700	879.300
271			START TRANSFERING FLUID TO 400 bbl TANK.														
272		10:30:00	8800	0	50.0	69.850	993	77.4	47.0	312.405	222.539	4.560	100.0	0.000	0.000	4.560	883.860
273		11:00:00	8800	0	48.0	69.850	1000	77.4	47.0	313.406	229.058	8.140	100.0	0.000	0.000	8.140	892.000
274			SALINITY = 0 ppm, PH = 7.														
275		11:09:00										3.440	100.0	0.000	0.000	3.440	895.440
276			START TRANSFERING FLUID TO 400 bbl TANK.														
277		11:30:00	8800	0	48.0	69.850	1000	78.2	46.0	315.468	235.609	6.420	100.0	0.000	0.000	6.420	901.860
278		12:00:00	8800	0	48.0	69.850	1000	78.2	46.0	315.468	242.181	9.010	100.0	0.000	0.000	9.010	910.870
279			START TRANSFERING FLUID TO 400 bbl TANK, SALINITY = 0 ppm, PH = 7.														
280		12:30:00	8800	0	48.0	69.850	1000	78.2	44.0	316.515	248.764	9.080	100.0	0.000	0.000	9.080	919.950

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a-068-NWT
Start Test Date: 2002/03/22
Final Test Date: 2002/03/28

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT

Job Number: 1289

	Date	Clock Time	'	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss		kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
281	2002/03/26	13:00:00		8800	0	48.0	69.850	1000	78.2	44.0	316.515	255.358	7.900	100.0	0.000	0.000	7.900	927.850
282				START TRANSFERING FLUID TO 400 bbl TANK, SALINITY = 0 ppm, PH = 7.														
283		13:30:00		8800	0	46.0	69.850	1000	79.2	44.0	318.550	261.974	9.040	100.0	0.000	0.000	9.040	936.890
284		13:35:00											1.230	100.0	0.000	0.000	1.230	938.120
285				START TRANSFERING FLUID TO 400 bbl TANK.														
286		14:00:00		8800	0	47.0	69.850	1089	83.2	44.0	339.632	268.830	7.360	100.0	0.000	0.000	7.360	945.480
287				SALINITY = 0 ppm, PH = 7.														
288		14:30:00		9100	0	46.0	69.850	1138	87.2	46.0	353.758	276.053	8.280	100.0	0.000	0.000	8.280	953.760
289				START TRANSFERING FLUID TO 400 bbl TANK.														
290		15:00:00		9100	0	46.0	69.850	1138	87.2	46.0	353.758	283.423	8.190	100.0	0.000	0.000	8.190	961.950
291				SALINITY = 0 ppm, PH = 7.														
292		15:30:00		9200	0	45.0	69.850	1172	89.6	43.0	365.619	290.916	7.420	100.0	0.000	0.000	7.420	969.370
293				START TRANSFERING FLUID TO 400 bbl TANK.														
294		16:00:00		9200	0	45.0	69.850	1193	91.6	43.0	372.787	298.608	8.570	100.0	0.000	0.000	8.570	977.940
295				SALINITY = 0 ppm, PH = 7.														
296		16:30:00		9200	5	45.0	69.850	1220	91.9	43.0	377.205	306.420	7.130	100.0	0.000	0.000	7.130	985.070
297				START TRANSFERING FLUID TO 400 bbl TANK.														
298		17:00:00		9300	5	45.0	69.850	1186	92.6	41.0	375.099	314.257	7.900	100.0	0.000	0.000	7.900	992.970
299				SALINITY = 0 ppm, PH = 7.														
300		17:30:00		9400	5	44.0	69.850	1241	93.1	42.0	383.486	322.159	5.730	100.0	0.000	0.000	5.730	998.700
301				START TRANSFERING FLUID TO 400 bbl TANK.														
302		18:00:00		9400	5	44.0	69.850	1276	95.6	40.0	395.092	330.269	9.160	100.0	0.000	0.000	9.160	1007.860
303				SALINITY = 0 ppm, PH = 7, ORING FOR ORIFICE PLATE SEPARATED, GAS RATE ESTIMATED.														
304		18:30:00		9500	5	42.0	69.850	1290	96.0	40.0	397.915	338.529	6.660	100.0	0.000	0.000	6.660	1014.520
305				START TRANSFERING FLUID TO 400 bbl TANK.GAS RATE ESTIMATED														
306		19:00:00		9600	5	42.0	69.850	1300	96.3	40.0	399.990	346.841	8.550	100.0	0.000	0.000	8.550	1023.070
307				SALINITY = 0 ppm, PH = 7, GAS RATE ESTIMATED.														
308		19:30:00		9600	5	42.0	69.850	1310	96.4	40.0	401.640	355.191	4.580	100.0	0.000	0.000	4.580	1027.650
309				START TRANSFERING FLUID TO 400 bbl TANK.														
310		20:00:00		9650	5	42.0	69.850	1320	96.5	39.0	403.981	363.583	6.730	100.0	0.000	0.000	6.730	1034.380
311				SALINITY = 0 ppm, PH = 7, GAS RATE ESTIMATED.														
312		20:30:00		9800	5	42.0	69.850	1330	96.7	39.0	405.841	372.019	6.280	100.0	0.000	0.000	6.280	1040.660
313				START TRANSFERING FLUID TO 400 bbl TANK.														
314		21:00:00		9700	5	42.0	69.850	1325	96.7	38.0	405.761	380.473	6.750	100.0	0.000	0.000	6.750	1047.410
315				SALINITY = 0 ppm, PH = 7, GAS RATE ESTIMATED.														

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/22
Final Test Date: 2002/03/28

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT

Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
316	2002/03/26	21:30:00	9600	5	42.0	69.850	1320	96.6	38.0	404.893	388.917	5.920	100.0	0.000	0.000	5.920	1053.330
317			START TRANSFERING FLUID TO 400 bbl TANK.														
318		22:00:00	9500	5	42.0	69.850	1315	96.6	38.0	404.173	397.345	7.230	100.0	0.000	0.000	7.230	1060.560
319			SALINITY = 4000 ppm, PH = 7, TRACE OF SAND.GAS RATE ESTIMATED.														
320		22:30:00	9600	5	42.0	69.850	1315	96.6	38.0	404.173	405.765	5.810	100.0	0.000	0.000	5.810	1066.370
321			START TRANSFERING FLUID TO 400 bbl TANK.														
322		23:00:00	9600	5	42.0	69.850	1315	96.7	39.0	403.688	414.181	6.760	100.0	0.000	0.000	6.760	1073.130
323			SALINITY = 4000 ppm, PH = 7, 0.5% SAND. GAS RATE ESTIMATED.														
324		23:30:00	9600	5	42.0	69.850	1315	96.6	39.0	403.433	422.588	5.730	100.0	0.000	0.000	5.730	1078.860
325		23:45:00										2.780	100.0	0.000	0.000	2.780	1081.640
326			START TRANSFERING FLUID TO 400 bbl TANK.														
327	2002/03/27	00:00:00	9650	5	42.0	69.850	1325	96.7	39.0	405.125	431.011	2.890	100.0	0.000	0.000	2.890	1084.530
328			SALINITY = 5000 ppm, PH = 7, 0.5% SAND, H2S = 0 ppm. GAS RATE ESTIMATED.														
329		00:30:00	9700	5	42.0	69.850	1330	96.7	39.0	405.927	439.459	6.200	100.0	0.000	0.000	6.200	1090.730
330		00:45:00										2.420	100.0	0.000	0.000	2.420	1093.150
331			START TRANSFERING FLUID TO 400 bbl TANK.														
332		01:00:00	9700	5	42.0	69.850	1330	96.8	39.0	406.055	447.917	2.770	100.0	0.000	0.000	2.770	1095.920
333			SALINITY = 4000 ppm, PH = 7, 0.5% SAND. GAS RATE ESTIMATED.														
334		01:30:00	9700	5	42.0	69.850	1330	96.8	39.0	406.055	456.377	6.750	100.0	0.000	0.000	6.750	1102.670
335			START TRANSFERING FLUID TO 400 bbl TANK.														
336		02:00:00	9700	5	42.0	69.850	1335	96.9	39.0	406.984	464.846	5.400	100.0	0.000	0.000	5.400	1108.070
337			SALINITY = 2000 ppm, PH = 7, 0.5% SAND. GAS RATE ESTIMATED.														
338		02:30:00	9750	5	42.0	69.850	1345	97.5	39.0	409.698	473.353	6.280	100.0	0.000	0.000	6.280	1114.350
339			START TRANSFERING FLUID TO 400 bbl TANK.														
340		03:00:00	9750	5	42.0	69.850	1355	98.3	39.0	412.839	481.921	5.920	100.0	0.000	0.000	5.920	1120.270
341			SHUT IN WELL TO FIX ORIFICE PLATE.														
342		03:00:00				0.000	0	0.0	0.0	0.000	481.921	0.000	0.0				
343		03:05:00	13000	5													
344		03:10:00	13000	5													
345		03:15:00	13000	5													
346		03:20:00	13000	5		0.000	0	0.0	0.0	0.000	481.921	0.000	0.0	0.000	0.000	0.000	1120.270
347			OPEN WELL ON A 50.80 mm CHOKE.														
348		03:25:00	9000	5	36.0												
349		03:30:00	9400	5	38.0							1.350	100.0	0.000	0.000	1.350	1121.620
350		03:35:00	9900	5	40.0												

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/22
Final Test Date: 2002/03/28

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT

Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
351	2002/03/27	03:45:00	9900	5	42.0												
352		04:00:00	9900	5	42.0							5.520	100.0	0.000	0.000	5.520	1127.140
353		04:05:00				0.000	0	0.0	0.0	0.000	481.921	0.810	100.0	0.000	0.000	0.810	1127.950
354			START TRANSFERING FLUID TO 400 bbl TANK, METER IN SERVICE WITH A 76.20 mm ORIFICE PLATE.														
355		04:15:00	9900	5	41.0	76.200	1103	83.7	40.0	432.811	484.927	4.950	100.0	0.000	0.000	4.950	1132.900
356		04:30:00	9900	5	41.0	76.200	1103	83.7	39.0	433.547	489.439	3.050	100.0	0.000	0.000	3.050	1135.950
357		05:00:00	9900	5	41.0	76.200	1103	84.4	39.0	435.516	498.492	5.310	100.0	0.000	0.000	5.310	1141.260
358			START TRANSFERING FLUID TO 400 bbl TANK, SALINITY = 3000 ppm, PH = 7, 0.5% SAND.														
359		05:30:00	9900	5	41.0	76.200	1103	84.4	38.0	436.260	507.573	6.180	100.0	0.000	0.000	6.180	1147.440
360		06:00:00	9900	5	41.0	76.200	1124	85.2	37.0	442.825	516.730	5.120	100.0	0.000	0.000	5.120	1152.560
361			START TRANSFERING FLUID TO 400 bbl TANK. SALINITY = 3000 ppm, PH = 7, TRACE OF SAND.														
362		06:30:00	9900	5	41.0	76.200	1131	85.7	37.0	445.423	525.982	6.000	100.0	0.000	0.000	6.000	1158.560
363		07:00:00										4.960	100.0	0.000	0.000	4.960	1163.520
364			START TRANSFERING FLUID TO 400 bbl TANK. SALINITY = 3000 ppm, PH = 7, TRACE OF SAND.														
365		07:30:00	9900	5	41.0	76.200	1138	86.9	37.0	449.971	544.636	4.840	100.0	0.000	0.000	4.840	1168.360
366		08:00:00	9900	5	40.0	76.200	1165	87.2	36.0	456.350	554.077	5.130	100.0	0.000	0.000	5.130	1173.490
367			START TRANSFERING FLUID TO 400 bbl TANK. SALINITY = 3000 ppm, PH = 7, TRACE OF SAND.														
368		08:30:00	9900	5	40.0	76.200	1165	88.4	36.0	459.634	563.619	7.510	100.0	0.000	0.000	7.510	1181.000
369		09:00:00	9800	5	40.0	76.200	1172	88.2	36.0	460.282	573.201	4.730	100.0	0.000	0.000	4.730	1185.730
370			START TRANSFERING FLUID TO 400 bbl TANK. SALINITY = 3000 ppm, PH = 7, TRACE OF SAND.														
371		09:30:00	9800	5	40.0	76.200	1172	89.1	36.0	462.898	582.818	7.320	100.0	0.000	0.000	7.320	1193.050
372		10:00:00	9850	5	40.0	76.200	1186	89.6	36.0	466.708	592.502	4.650	100.0	0.000	0.000	4.650	1197.700
373			START TRANSFERING FLUID TO 400 bbl TANK. SALINITY = 3000 ppm, PH = 7, TRACE OF SAND.														
374		10:30:00	9800	5	40.0	76.200	1186	89.6	36.0	463.788	602.227	6.320	100.0	0.000	0.000	6.320	1204.020
375		11:00:00	9800	5	40.0	76.200	1186	89.6	36.0	466.788	611.951	3.910	100.0	0.000	0.000	3.910	1207.930
376			START TRANSFERING FLUID TO 400 bbl TANK. SALINITY = 3000 ppm, PH = 7, TRACE OF SAND.														
377		11:30:00	9800	5	40.0	76.200	1241	85.7	36.0	465.924	621.667	5.040	100.0	0.000	0.000	5.040	1212.970
378		12:00:00	9750	5	40.0	76.200	1241	85.7	36.0	465.924	631.374	4.120	100.0	0.000	0.000	4.120	1217.090
379			SALINITY = 3000 ppm, PH = 7, TRACE OF SAND														
380			SHUT IN AT WING VALVE, RECORD PRESSURE BUILDUPS														
381		12:00:00				0.000	0	0.0	0.0	0.000	631.374	0.000	0.0				
382		12:10:00	13300	5													
383		12:15:00	13425	5													
384		12:20:00	13515	5													
385		12:25:00	13674	5													

ANADARKO CANADA CORPORATION
s-068-NWT
Start Test Date: 2002/03/22
Final Test Date: 2002/03/28

FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT

Job Number: 1289

	Date	Clock Time	Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
386	2002/03/27	12:30:00	13690	5													
387		12:45:00	13857	5													
388			RECORDERS SET @ 2017 mCF.														
389		13:00:00	14110	5													
390		13:15:00	14123	5													
391		13:30:00	14300	5													
392		14:00:00	14400	5													
393		14:30:00	14400	5													
394		15:00:00	14400	5													
395		15:30:00	14400	5													
396		16:00:00	14400	5													
397		16:30:00	14400	5													
398		17:00:00	14400	5													
399		17:30:00	14400	5													
400		18:00:00	14400	5													
401		18:30:00	14400	5													
402		19:00:00	14400	5													
403		19:30:00	14400	5													
404		20:00:00	14400	5													
405		20:30:00	14400	5													
406		21:00:00	14400	5													
407		21:30:00	14400	5													
408		22:00:00	14400	5													
409		22:30:00	14400	5													
410		23:00:00	14400	5													
411		23:30:00	14400	5													
412	2002/03/28	00:00:00	14400	5													
413		00:30:00	14400	5													
414		01:00:00	14400	5													
415		01:30:00	14400	5													
416		02:00:00	14400	5													
417		02:30:00	14400	5													
418		03:00:00	14500	5													
419		03:30:00	14500	5													
420		04:00:00	14500	5													

ANADARKO CANADA CORPORATION
a-068-NWT
Start Test Date: 2002/03/22
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FieldNotes
Field Measurements

ANADARKO NETLA 'A'
Formation: SLAVE POINT

Job Number: 1289

	Date	Clock Time	' Tbg	Csg	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Vol	BSW	Oil Gain	Cum Oil	H2O Gain	Cum H2O
	yyyy/mm/dd	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	$10^3m^3/d$	10^3m^3	m^3	%	m^3	m^3	m^3	m^3
421	2002/03/28	04:30:00	14500	5													
422		05:00:00	14500	5													
423		05:30:00	14500	5													
424		06:00:00	14500	5													
425		06:30:00	14500	5													
426			END OF BUILDUPS														
427			END OF CLEAN UP														
428			NEW FILE STARTED FOR MULTI-POINT TEST														
429			GAS CUMS CARRIED OVER TO NEW FILE														
430		07:00:00	0	0	0.0	0.000	0	0.0	0.0	0.000	631.374	0.000	0.0	0.000	0.000	0.000	1217.090

ANADARKO CANADA CORPORATION
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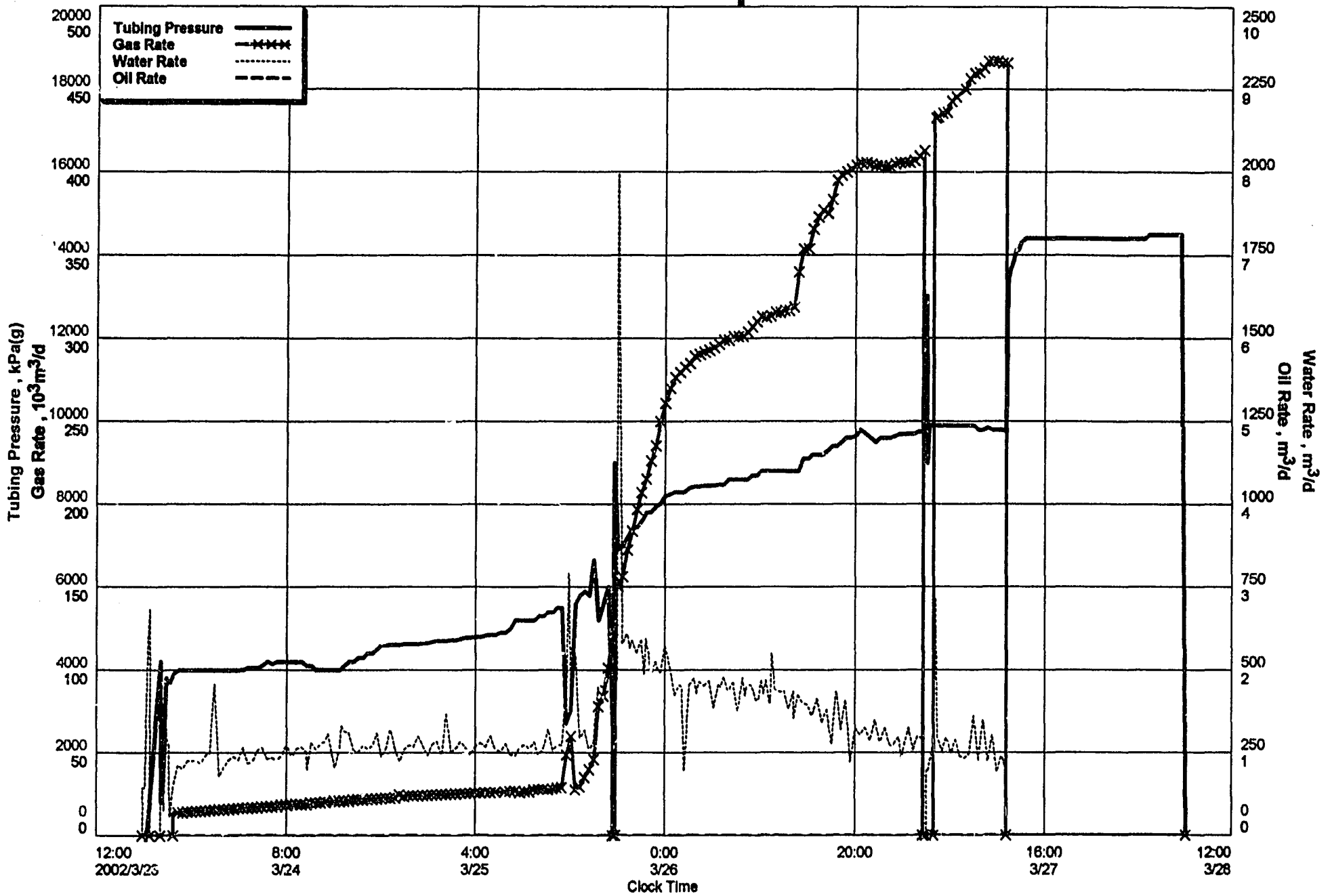
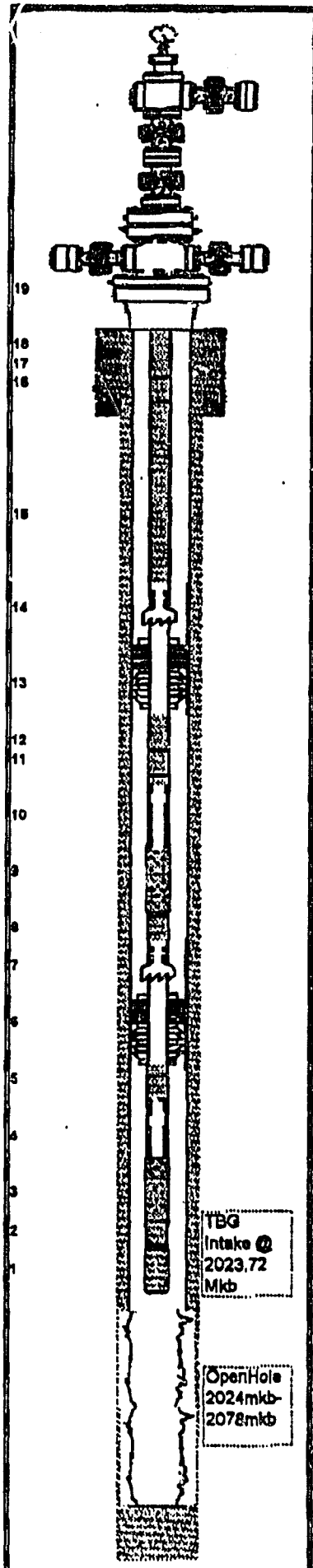
ANADARKO NETLA 'A'
Formation: SLAVE POINT
Job Number: 1289

Clean Up



APPENDIX 5



Downhole Well Profile

WELL NAME	Anadarko Nella A-68			DATE	March 17/2002
ELEVATIONS (meters)					
KB ELEV	GL ELEV	KB TO THF	KB TO BCF	KB TO GL	PBTD
654.01	649.3	4.71	4.71	4.71	2078
CASING DESCRIPTION		OD (mm)	LANDED DEPT	WEIGHT (kg/m)	TOP OF (mKB)
Surface Casing		244.5	559	59.53	4.71
Production Casing		177.8	2024	38.69	500

Perf Date	Zones	Top Shot	Bottom Shot	Status	Gun Data
	Slave Point	2024.00	2078.00	gas	Open Hole

DOWNHOLE DESCRIPTION FROM BOTTOM UP (Tubing String)

ITEM #	DESCRIPTION	LENGTH	TOP OF (mKB)
1	1-73mm Wireline Re-entry Guide c/w mm no-go (Impregion Coated G	0.16	2023.57
2	1-73mm EUE L-80 9.67 kg/m Pup Jt. (Impregion Coated)	3.08	2020.49
3	1-73mm EUE L-80 9.67 kg/m Perforated Pup Jt. (Impregion Coated)	3.11	2017.38
4	1-73mm x 58.75mm EUE Otis "X" Profile Landing Nipple (Impregion Coated)	0.25	2017.13
5	1-73mm EUE L-80 9.67 kg/m Pup Jt. (Impregion Coated)	3.09	2014.04
6	178mm x 73mm WDG Wireline set Double Grip Weatherford Retrievable Prod. Packer	1.78	2012.26
7	1-178mm x 114.3mm Over Shot (no seals)	0.31	2011.95
8	1-73mm EUE L-80 9.67 kg/m Pup Jt (Coated)	3.12	2008.83
9	1-73mm EUE L-80 9.67 kg/m Perforated Pup	3.09	2005.74
10	1-73mm x 58.75mm EUE Otis "X" Profile Landing Nipple (Impregion Coated)	0.34	2005.56
11	1-73mm EUE L-80 9.67 kg/m Pup Jt. (Impregion Coated)	2.96	2002.40
12	1-73mm EUE Box Collar Connector	0.19	2002.21
13	1-177.8mm x 73mm Halliburton BWC Permanent Production Packer c/w Atlas Elements w/58.75mm "X" Profile in on-off connector slick joint (Coated)	0.77	2001.44
14	1-177.8mm Rhand release On-off Connector	0.46	2000.98
15	209-88.9mm EUE L-80 NSCT Tbg. Jts to surface	1984.47	16.49
16	1-88.9mm EUE L-80 13.69 kg/m NSCT Pup Jt. (Coated)	1.75	14.74
17	1-88.9mm EUE L-80 13.69 kg/m NSCT Tbg. Jt. (Coated)	9.49	5.25
18	1-88.9mm EUE Pin x 88.9mm NSCT Pin	0.28	4.97
19	1-178mm x 88.9mm NSCT Tbg. Hanger	0.56	4.41

WEIGHT OF TUBING STRING (daN	27517	TOTAL STRING LENGTH	2019.31
TENSION/COMPRESSION (+/- daN	-5500	STRETCH/SLACKOFF (+/- m)	-0.30
LANDED STRING WEIGHT (daN)	22017	TUBING BOTTOM (mKB)	2023.72

WELL HEAD DESCRIPTION

ITEM #	DESCRIPTION	SERIAL #	MWP	SIZE
1	Assy, False Bowl Speedhead	1104D869-01	70.00	279mmx184mm
2	Assy, Compact Hanger	1104D869-01	70.00	178mmx89mm
3	Assy,Flange,Seal Adapter	11040624-01	35.00	178x279x89
4	Lower Master Valve	11039700-1	35.00	89mm
5	Upper Master Valve	11039736-1	35.00	89mm
6	Studded Cross	2413268-06	35.00	80mm
7	Wing Gate Valve	11039736-2	35.00	80mm

REMARKS

Top Packer was landed & set above bottom packer with aprrox. 150 lbs. Compression. There is no seal in on-off overshot. Therefore there will be no seal between the 2 packers annulus. Top packer is a drillable permanent packer were as bottom one is a retrievable, 1/4 turn to the right & pull up.

03/10/03 MON 16:52 FAX 1 250 785 9183 ANADARKO CANADA CORP 003

APPENDIX 6

OVERSIZED

DOCUMENT

FILMED

ON

35mm

APPENDIX 7

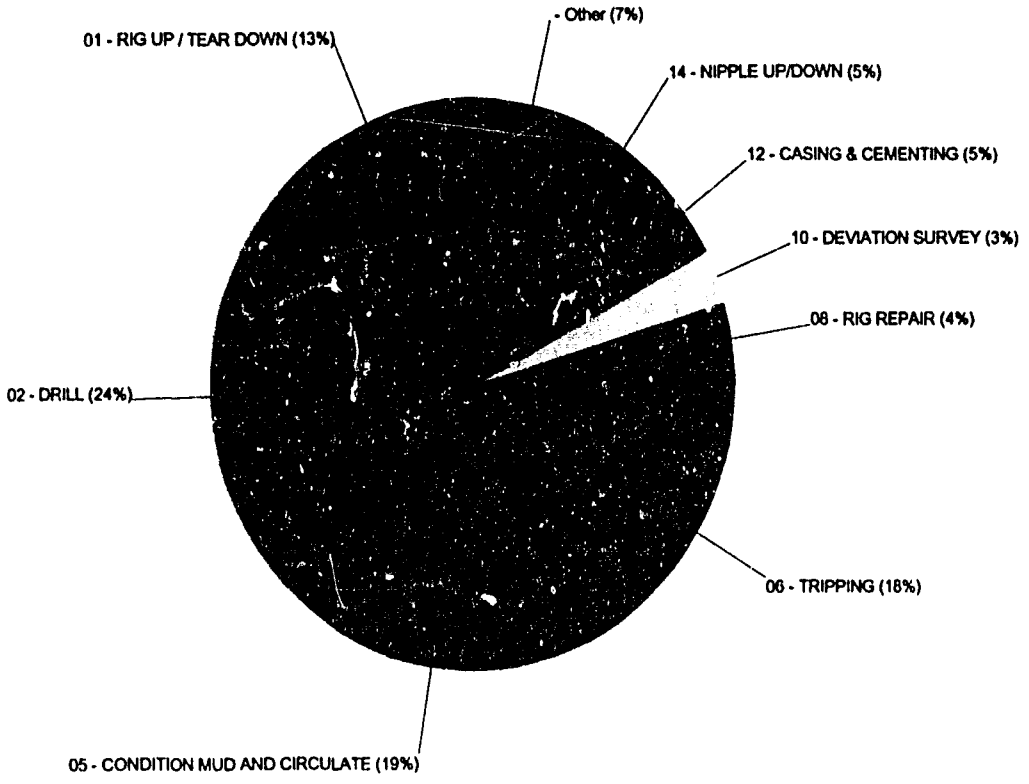
5 year data Filmed
Separately - Released Mar 17.2007

APPENDIX 8

Anadarko Canada Corporation

Operations Chart

Legal Well Name:	ANADARKO NETLA A-68				
Common Well Name:	NETLA A-68			Spud Date:	2/23/2002
Event Name:	ORIG DRILLING	Start:	2/7/2002	End:	3/16/2002
Contractor Name:	AKITA	Rig Release:			
Rig Name:	AKITA	Rig Number:	55	Code:	OP_CODE



ANADARKO CANADA ENERGY LTD.

Well History / Drilling Curve

Well Name: ANADARKO NETLA A-68		Country: CANADA	License: 1936
Location: 300/A- 68 Lat: 60° 50' Long: 122° 30'		Region: BC	
Drill TMD:	Drill TVD:	Plug Back TMD:	Spud Date: 2/23/2002
Estimated TMD: 2,078.0 (m)	Estimated Cost: 3,256,200	Well Status: EVALUATING	

24 Hour Summary

DOL	Description
1.00	RIG MOVE RIG UP
2.00	RIGGING, NIPPLE UP DIVERTER,
3.00	RIG UP REPAIR ELECTRICAL PLUG KOOMEY UNIT PRESPUD MEETING,
4.00	SPUD SURFACE HOLE, TRIP, SURVEYS, DRILL,
5.00	DRILL, RIG SERVICE, CIRCULATE, SURVEYS
6.00	DRILL, CIRCULATE, TRIP OUT,SLIP & CUT, TRIP IN, CIR. WIPPER TRIP, CIR.
7.00	DRILL, WIPER TRIPS,CIRCULATE, RUN SURFACE CASING,
8.00	CEMENT SURFACE CASING, TRIP OUT CEMENT STINGER, NIPPLE BOPS,
9.00	NIPPLE UP BOP STACK AND CHOKE MANIFOLD, START TESTING,
10.00	TEST AND REPAIR BOPS LINES, VALVES,
11.00	REPAIR STANDPIPE VALVES, CHANGE BHA, JACK RIG, DRILL OUT, DRILL,
12.00	DRILL SLIDE, RIG SERVICE, SURVEYS,
13.00	DRILL, RIG SERVICE, SURVEYS,
14.00	DRILL, CIRCULATE, TRIP, SURVEYS, DRILL,
15.00	DRILL & SLIDE, RIG SERVICES, ACCUMULATED SURVEY TIMES,
16.00	DRILL, CIRCULATE SAMPLE, WIPPER TRIP, CIRCULATE,
17.00	CIRCULATE, WIPPER TRIPS, TRIP OUT LAY DOWN BHA, LOG,
18.00	LOG, RUN CASING, CIRCULATE, CEMENT CASING, CLEAN MUD TANKS,
19.00	CLEAN MUD TANKS, REPAIR BOPS, TRIP IN HOLE,
20.00	TRIP IN HOLE, CONDITION MUD, DRILL OUT SHOE TRACK, FIT, DRILL , TRIP,
21.00	DRILL, LOST CIRULATION, CURR LOSSES, DRILL, LOST CIRCULATION, MIX LCM,
22.00	MIX AND PUMP PILLS, MONITOR WELL,
23.00	MIX AND PUMP LCM PILLS, MONITOR WELL, CIRCULATE WAY TO BOTTOM,
24.00	MIX AND PUMP LCM PILLS, MONITOR WELL, DRILL, CLEAN MUD TANKS,
25.00	RUN GAUGE RING, RUN PACKER, TRIP IN LAY DOWN DP & BHA,

Mud Products Summary

Product	Amount	Cost	Product	Amount	Cost
BARACARB	0	0.00	BENTONITE (NONTREAT)	97	2,201.90
BICARBONATE OF SODA	0	0.00	BIOLOSE	75	14,052.50
BLEACH 12%	5	237.75	CALCIUM CARB SUPPER CAL	116	1,206.40
CALCIUM CARBONATE 325	115	0.00	CALCIUM CARBONATE (32 & 0)	392	3,822.00
CALCIUM CARBONATE (POULTRY)	491	5,106.40	CALCIUM CHLORIDE FINES	80	5,348.00
CALCIUM CHLORIDE POWDER	0	0.00	CARBOGEL	19	5,764.60
CARBOMUL (DFE 418)	2	3,703.80	CARBOTEC	1	949.15
CARBOTROL	20	1,737.00	CAUSTIC SODA	2	113.10
CORSCAV	0	0.00	DESCO CF	1	100.70
DIESEL	164	6,560.00	ENVIROVERT	51	22,950.00
FLOOR DRY	16	465.60	GEL (TREATED)	0	0.00
GEL (UNTREATED)	0	0.00	LIME	15	212.25
MICA FINE	0	0.00	MICA MEDIUM	0	0.00
MILBAR	0	0.00	MILCLEAN	0	0.00
MILGEL	14	351.40	PALLETS (DELIVERED)	5	75.00

ANADARKO CANADA ENERGY LTD.

Well History / Drilling Curve

Well Name: ANADARKO NETLA A-68 | Country: CANADA | License: 1936

Location: 300/A- 68 Lat: 60° 50' Long: 122° 30' | Region: BC

Drill TMD: | Drill TVD: | Plug Back TMD: | Spud Date: 2/23/2002

Estimated TMD: 2,078.0 (m) | Estimated Cost: 3,256,200 | Well Status: EVALUATING

Mud Products Summary

Product	Amount	Cost	Product	Amount	Cost
PALLETS (RETURNED)	0	0.00	PRIMA-SEAL COARSE	0	0.00
SAPP	1	123.25	SAWDUST	137	1,000.10
SHRINKWRAPS	48	720.00	SODA ASH	0	0.00
SOLUFLAKE	212	34,556.00	STAFLO REGULAR	17	5,897.30
STARPAK DP	0	0.00	STAYFLO (RED & WHITE)	18	6,244.20
SUPERMUD	0	0.00	TRUCKING	1	2,782.00
VAN RENTAL	8	440.00	XANPLEX D (XCD POLYMER)	1	424.55
	0	0.00			

Bit Summary

Bit #	Size (mm)	Type	Jets (1-6) (mm)	TMD Out (m)	Run TMD (m)	Hrs	ROP	Condition I-O-D-L / B-G-O-R
1A	311.20	ATJ-	15.9//15.9//15.9/	550.00	550.00	37.50	14.67	3-3-BT-M / 8- I-BT-BC
2A	12.24	GT-1	15.9//15.9//15.9/	560.00	10.00	1.15	8.70	1-1-0- / 0- I-0-TD
3	215.90	TM266	11.9/11.9/11.9/11.9/11.9/11.9	1,447.00	887.00	59.25	14.97	— / 0- I–
4	215.90	GT-03	11.1/11.1/11.1///	2,028.00	581.00	34.50	16.84	6-5-BT-A / 5- I-LT-TD
5	155.60	HP12	15.9/15.9/15.9///	2,035.00	7.00	2.15	3.26	8-8-WT-A / 2- I-WT-PR
6	155.60	XR30T	15.9/15.9/15.9///	2,067.00	43.00	10.00	4.30	6-5-FC-C / 2- 2-BT-TD

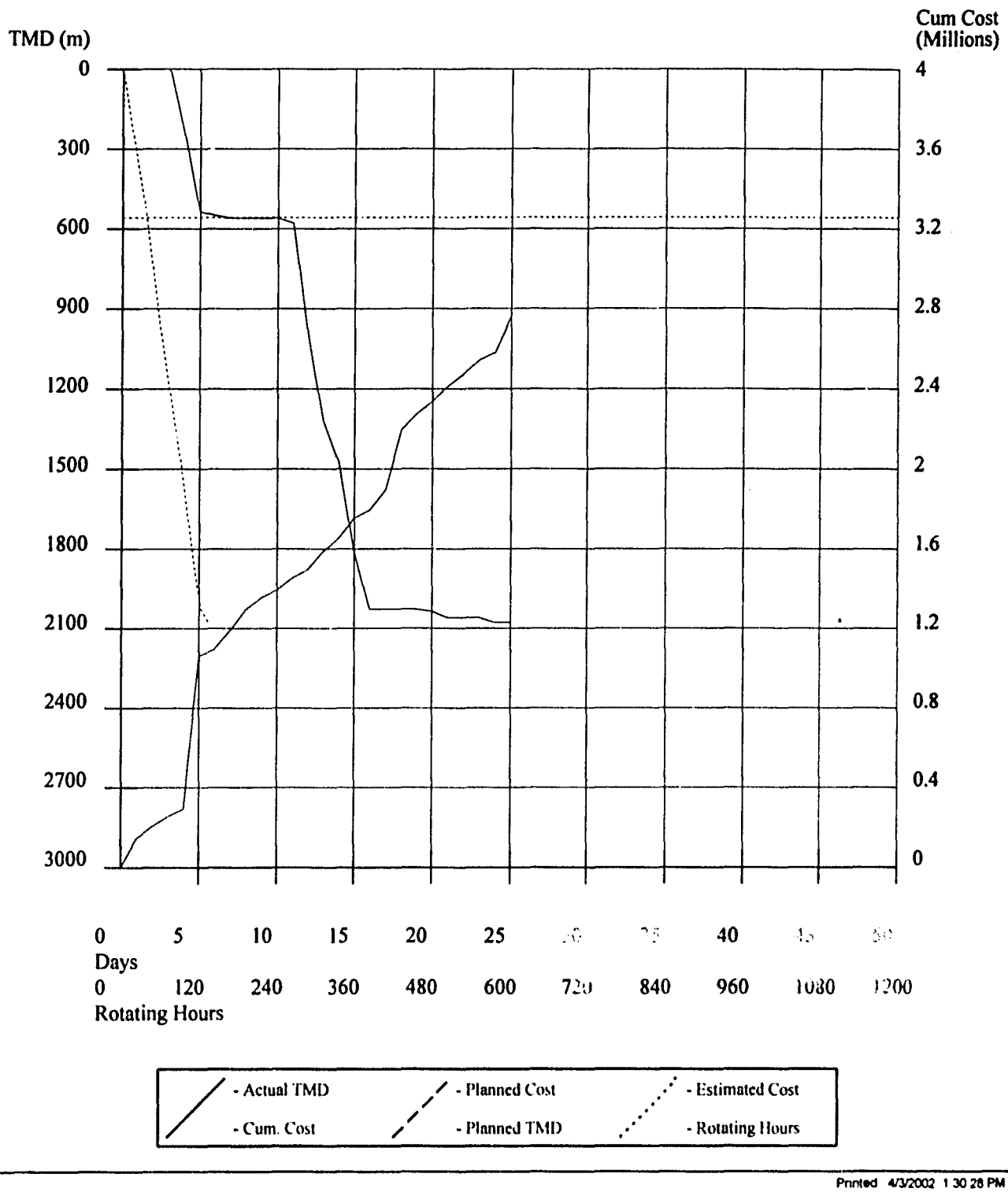
Field Cost Summary

Description	Cost	Description	Cost
WELL PREP-RAT FOLE AND MOUSE	44,753.00	WELL PREP-ROAD/CAMP CONST	746,931.38
RIG/CAMP MOVE & MODIFICATION	167,087.25	TRUCKING AND HAULING	135,514.32
CASING /HEAD SPOOL/ACCESSORIES	3,972.90	WASTE FLUID/CUTTINGS HANDLNGS	84,293.37
CONTRACT-OP RATE/MODIFICATION	31,200.00	CONTRACT INCENTIVE/BONUS	2,800.00
FUEL	62,059.76	WATER	69,548.35
CAMP/CREW TRAVEL/SUBSISTENCE	78,720.00	EQUIP RENTAL/SERVICE-DRILLING	516,230.81
EQUIP RENTAL/SERVICE-SAFETY	33,105.00	DIRECTIONAL DRILLING CHARGES	92,556.00
COMMUN SOFTWARE/SUPPORT	13,790.00	ONSITE SUPERIVISION	67,500.00
SURFACE CASING - TUBULARS	50,710.00	SURFACE CASING - CEMENTING	58,120.29
SURF CASING-EQUIP/ACCESSORIES	36,836.67	INTERMED CASE/LINER-TUBULAR	123,464.00
INTERMED CASE/LINER-CEMENTING	125,963.00	INTERMED CASE/LINER-EQUIP	25,473.69
DRILLING BITS & ACCESSORIES	62,095.00	DRILL FLUID CHEMICAL/SERVICE	127,264.95
WIRELINE LOGGING	20,163.67		0.00
		TOTALS	2,760,153.41

ANADARKO CANADA ENERGY LTD.

Well History / Drilling Curve

Well Name: ANADARKO NETLA A-68		Country: CANADA	License: 1936
Location: 300/A- 68 Lat: 60° 50' Long: 122° 30'		Region: BC	
Drill TMD:	Drill TVD:	Plug Back TMD:	Spud Date: 2/23/2002
Estimated TMD: 2,078.0 (m)	Estimated Cost: 3,256,200	Well Status: EVALUATING	



APPENDIX 9

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 2/19/2002	Report: 1	DFS:	DOL:	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name: AKITA 55	TMD:		TVD:		Progress:		
	KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)	
Rig Super: JIM ELLIOTT 403-818-7074	Rot. Hours:		AV ROP:		Hole Size:		
Wellsite Eng: STAN WEICH 403-231-0190	Last Casing:		Shoe TMD:		Shoe TVD:		
Daily Cost:	Cum Cost:		AFE Est:	3,256,200	AFE No.:	0143002	

Current Status: RIG MOVING

24hr Forecast:

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
					Bkgr Avg/Max (mg/L)	
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 Date: 2/19/2002 Report: 1 DFS: DOL:
Event Name: ORIG DRILLING Start: 2/23/2002 End:

Pump Data

Pump			
Liner			
Stroke			
EFF			
Press			
SPM			
Output			

Velocities

Drill Pipe	(m/min)	
Drill Collar	(m/min)	
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1:			
Time/Loc		Ca+	
Depth		K+	
Temp		Polymer	
Density		CaCl2	
ECD		NaCl	
Viscosity		Sand	
PV		Tot. Solids	
YP		% Oil	
GELS		% H2O	
API WL		Oil/H2O	
HTHP WL		HGSolid	
API FC		LGSolid	
MBT		ES	
Lime		Oil Ret	
pH			
Pm			
Pf/Mf			
Comment1:			

Mud Products

Additive	# Units

Mud Cost

Daily	$0.00
Cumulative	$0.00

Bit Data

Bit No.		
Run		
Size		
Manu.		
Type		
Serial No.		
TFA		
Depth In		
Depth Out		
Cum. Depth		
Cum. Hours		
WOB (Min)		
WOB (Max)		
RPM (Min)		
RPM (Max)		
Cond (IODL)		
Cond (BGOR)		
Jets 1/2/3		
Jets 4/5/6		

Pipe Data

Min ID	
DC OD	
DC	
HWDP OD	
HWDP	
BHA	
DP OD	
String Rot Weight	
Pick-Up Weight	
Slack Off Weight	

BHA Desc.:

Item	Jts	Length

Safety Drills

Last BOP Test (P)	
Last BOP Test (F)	
Last BOP Drill	

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 2/20/2002	Report: 2	DFS:	DOL: 1.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name: AKITA 55	TMD:		TVD:		Progress:		
	KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)	
Rig Super: JIM ELLIOTT 403-818-7074	Rot. Hours:		AV ROP:		Hole Size:		
Wellsite Eng: STAN WEICH 403-231-0190	Last Casing:		Shoe TMD:		Shoe TVD:		
Daily Cost: 143,486	Cum Cost:	143,486	AFE Est:	3,256,200	AFE No.:	0143002	

Current Status: RIGGING UP,

RIG MOVE RIG UP

24hr Forecast: RIG UP & SPUD

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 00:00	24.00	01	A	P MIRU	RIG MOVE 100 % RIGGED UP 50 % ,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
					Bkgr Avg/Max (mg/L)	
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 2/20/2002 | Report: 2 | DFS: | DOL: 1.00

Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump			
Liner			
Stroke			
EFF			
Press			
SPM			
Output			

Velocities

Drill Pipe	(m/min)	
Drill Collar	(m/min)	
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1:			
Time/Loc		Ca+	
Depth		K+	
Temp		Polymer	
Density		CaCl2	
ECD		NaCl	
Viscosity		Sand	
PV		Tot. Solids	
YP		% Oil	
GELS		% H2O	
API WL		Oil/H2O	
HTHP WL		HGSolid	
API FC		LGSolid	
MBT		ES	
Lime		Oil Ret	
pH			
Pm			
Pf/Mf			
Comment1:			

Mud Products

Additive	# Units

Mud Cost

Daily	$0.00
Cumulative	$0.00

Bit Data

Bit No.		
Run		
Size		
Manu.		
Type		
Serial No.		
TFA		
Depth In		
Depth Out		
Cum. Depth		
Cum. Hours		
WOB (Min)		
WOB (Max)		
RPM (Min)		
RPM (Max)		
Cond (IODL)		
Cond (BGOR)		
Jets 1/2/3		
Jets 4/5/6		

Pipe Data

Min ID	
DC OD	
DC	
HWDP OD	
HWDP	
BHA	
DP OD	
String Rot Weight	
Pick-Up Weight	
Slack Off Weight	

BHA Desc.:

Item	Jts	Length

Safety Drills

Last BOP Test (P)	
Last BOP Test (F)	
Last BOP Drill	

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 2/21/2002	Report: 3	DFS:	DOL: 2.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name: AKITA 55		TMD:		TVD:		Progress:	
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super: JIM ELLIOTT 403-818-7074		Rot. Hours:		AV ROP:		Hole Size:	311.00 (mm)
Wellsite Eng: STAN WEICH 403-231-0190		Last Casing:		Shoe TMD:		Shoe TVD:	
Daily Cost: 60,692		Cum Cost:	204,178	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: RIGGING UP 90 % COMPLETE

RIGGING, NIPPLE UP DIVERTER,

24hr Forecast: RIG UP , SPUD, DRILL SURFACE HOLE,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 00:00	24.00	01	A	P MIRU	RIGGING UP DIVERTER & RIG 75 % RIGGED UP, WELDING UP CRACK IN MUD TANK,LAYING MATTING ON MUD TANK SIDE OF RIG,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
					Bkgr Avg/Max (mg/L)	
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 2/21/2002 | Report: 3 | DFS: | DOL: 2.00

Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump			
Liner			
Stroke			
EFF			
Press			
SPM			
Output			

Velocities

Drill Pipe	(m/min)	
Drill Collar	(m/min)	
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1:			
Time/Loc		Ca+	
Depth		K+	
Temp		Polymer	
Density		CaCl2	
ECD		NaCl	
Viscosity		Sand	
PV		Tot. Solids	
YP		% Oil	
GELS		% H2O	
API WL		Oil/H2O	
HTHP WL		HGSolid	
API FC		LGSolid	
MBT		ES	
Lime		Oil Ret	
pH			
Pm			
Pf/Mf			
Comment1:			

Mud Products

Additive	# Units

Mud Cost

Daily	$0.00
Cumulative	$0.00

Bit Data

Bit No.		
Run		
Size		
Manu.		
Type		
Serial No.		
TFA		
Depth In		
Depth Out		
Cum. Depth		
Cum. Hours		
WOB (Min)		
WOB (Max)		
RPM (Min)		
RPM (Max)		
Cond (IODL)		
Cond (BGOR)		
Jets 1/2/3		
Jets 4/5/6		

Pipe Data

Min ID	
DC OD	
DC	
HWDP OD	
HWDP	
BHA	
DP OD	
String Rot Weight	
Pick-Up Weight	
Slack Off Weight	

BHA Desc.:

Item	Jts	Length

Safety Drills

Last BOP Test (P)
Last BOP Test (F)
Last BOP Drill

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 2/22/2002	Report: 4	DFS:	DOL: 3.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name: AKITA 55		TMD:		TVD:		Progress:	
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super: JIM ELLIOTT 403-818-7074		Rot. Hours:		AV ROP:		Hole Size:	311.00 (mm)
Wellsite Eng: STAN WEICH 403-231-0190		Last Casing:		Shoe TMD:		Shoe TVD:	
Daily Cost: 52,153		Cum Cost:	256,331	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: DRILLING SURFACE HOLE AT55 M

RIG UP REPAIR ELECTRICAL PLUG KOOMEY UNIT PRESPUD MEETING,

24hr Forecast: DRILL SURFACE HOLE,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 22:30	22.50	01	A	P MIRU	RIG UP,REPAIR ELECTRIC MOTE CONTROL BOP CABLE TO KOOMEY UNIT,
22:30 - 23:30	1.00	06	J	P MIRU	MAKE UP BHA AND PRESSURE TEST DIVERTER TO 1000 KPA, (KB TO DIVERTER FLANGE 4.12 M)
23:30 - 00:00	0.50	21	A	P MIRU	RIG SERVICE, SAFETY MEETING, PRESPUD MEETING,

DAILY OPERATIONAL COMMENTS(24hr Summary):
SPUD ANADARKO NETLA A-68 0N FEBRUARY 23 2002 AT 00:01 HOURS ,
K.B. TO GROUND 4.85 M

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
					Bkgr Avg/Max (mg/L)	
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 2/22/2002 | Report: 4 | DFS: | DOL: 3.00

Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump			
Liner			
Stroke			
EFF			
Press			
SPM			
Output			

Velocities

Drill Pipe	(m/min)	
Drill Collar	(m/min)	
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1:			
Time/Loc		Ca+	
Depth		K+	
Temp		Polymer	
Density		CaCl2	
ECD		NaCl	
Viscosity		Sand	
PV		Tot. Solids	
YP		% Oil	
GELS		% H2O	
API WL		Oil/H2O	
HTHP WL		HGSolid	
API FC		LGSolid	
MBT		ES	
Lime		Oil Ret	
pH			
Pm			
Pf/Mf			
Comment1:			

Mud Products

Additive	# Units
CAUSTIC SODA	1
BENTONITE (NO	73
SAWDUST	18
VAN RENTAL	3
TRUCKING	1

Mud Cost

Daily	$4,792.05
Cumulative	$4,792.00

Bit Data

Bit No.		
Run		
Size		
Manu.		
Type		
Serial No.		
TFA		
Depth In		
Depth Out		
Cum. Depth		
Cum. Hours		
WOB (Min)		
WOB (Max)		
RPM (Min)		
RPM (Max)		
Cond (IODL)		
Cond (BGOR)		
Jets 1/2/3		
Jets 4/5/6		

Pipe Data

Min ID	
DC OD	
DC	
HWDP OD	
HWDP	
BHA	
DP OD	
String Rot Weight	
Pick-Up Weight	
Slack Off Weight	

BHA Desc.:

Item	Jts	Length

Safety Drills

Last BOP Test (P)	2/22/2002
Last BOP Test (F)	2/22/2002
Last BOP Drill	

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 2/23/2002	Report: 5	DFS: 1.00	DOL: 4.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name:	AKITA 55	TMD:	247.00 (m)	TVD:	247.00 (m)	Progress:	247.00 (m)
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super:	JIM ELLIOTT 403-818-7074	Rot. Hours:	15.75	AV ROP:	15.68	Hole Size:	311.20 (mm)
Wellsite Eng:	STAN WEICH 403-231-0190	Last Casing:		Shoe TMD:		Shoe TVD:	
Daily Cost:	35,601	Cum Cost:	291,932	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: DRILLING SURFACE HOLE @ 340 M,

SPUD SURFACE HOLE, TRIP, SURVEYS, DRILL,

24hr Forecast: DRILL AHEAD,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 01:00	1.00	02	B	P DRLSUR	SPUD AT 00.01 HOURS, DRILL 311 MM HOLE TO 29 M,
01:00 - 01:15	0.25	07	A	P DRLSUR	RIG SERVICE,
01:15 - 04:00	2.75	06	J	P DRLSUR	TRIP CHANGE BHA,
04:00 - 09:00	5.00	02	B	P DRLSUR	DRILL SURFACE HOLE FROM 29 M TO 89 M,
09:00 - 09:30	0.50	10		P DRLSUR	ACCUMULATED SURVEY TIMES,
09:30 - 10:00	0.50	05	K	P DRLSUR	CIRCULATE HOLE CLEAN,
10:00 - 12:00	2.00	06	J	P DRLSUR	TRIP CHANGE BHA,
12:00 - 17:45	5.75	02	B	P DRLSUR	DRILL SURFACE HOLE FROM 89 M TO 171 M,
17:45 - 18:30	0.75	05	K	P DRLSUR	EXTEND FLOW LINE NIPPLE,
18:30 - 22:30	4.00	02	B	P DRLSUR	DRILL SURFACE HOLE FROM 171 M TO 247 M,
22:30 - 22:45	0.25	07	A	P DRLSUR	RIG SERVICE,
22:45 - 00:00	1.25	10		P DRLSUR	ACCUMULATED SURVEY TIMES,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max	(mg/L)
					Bkgr Avg/Max	(mg/L)
					Trip Avg/Max	(mg/L)
					H2S	(%)

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 2/23/2002 | Report: 5 | DFS: 1.00 | DOL: 4.00

Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800	F-800
Liner (mm)	152.4	152.4
Stroke (mm)	215.9	215.9
EFF	98.0	98.0
Press (kPa)	6,000	6,000
SPM	85	85
Output (L/mi	984.19	984.19

Velocities

Drill Pipe	(m/min)	29.4
Drill Collar	(m/min)	35.5
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1: GEL CHEM				
Time/Last	12:25 / IN		Ca+ (mg/L)	
Depth	(m)	247.00	K+ (mg/L)	
Temp	(°C)	79	Polymer (kg/m³)	
Density	(kg/m³)	1,100	CaCl2 (%)	
ECD	(kg/m³)		NaCl (%)	
Viscosity	(s/l)	45	Sand (%)	
PV	(mPa*s)	4.0	Tot. Solids	
YP	(Pa)	42.0	% Oil	
GELS	(Pa)	56.4/102.3/	% H2O	
API WL	(mL)	25.0	Oil/H2O	/
HTHP WL	(mL)		HGSolid (kg/m³)	
API FC	(mm)	5.0	LGSolid (kg/m³)	
MBT	(kg/m³)		ES (mV)	
Lime	(kg/m³)		Oil Ret (%)	
pH		11.50		
Pm	(cm³)	0.4		
Pf/Mf	(cm³ / cm³)	0.50 /		

Comment1:

Mud Products

Additive	# Units
VAN RENTAL	1

Mud Cost

Daily	$0.00
Cumulative	$4,792.00

Bit Data

Bit No.	1A	
Run	1	
Size (mm)	311.20	
Manu.	Hughes	
Type	ATJ-	
Serial No.	P75EM	
TFA (mm²)	595.7	
Depth In (m)		
Depth Out (m)	550.00	
Cum. Depth (m)	247.00	
Cum. Hours	15.75	
WOB (Min)(daN)	2,000	
WOB (Max)(daN)	6,000	
RPM (Min)	120	
RPM (Max)	200	
Cond (IODL)	3/3/BT/M	
Cond (BGOR)	8/ I/BT/BC	
Jets 1/2/3	15.9//15.9	
Jets 4/5/6	/15.9/	

Pipe Data

Min ID	(mm)	
DC OD	(mm)	228.00
DC	(m)	247.00
HWDP OD	(mm)	101.60
HWDP	(m)	60.00
BHA		187.16
DP OD	(mm)	101.60
String Rot Weight	(daN)	24,000
Pick-Up Weight	(daN)	26,000
Slack Off Weight	(daN)	23,000

BHA Desc.: SURFACE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.30
Drill Collar	2	17.43
Cross Over	2	1.29
Drill Collar	9	85.65
Cross Over	1	0.22
Heavy Weight Drill Pipe	9	82.27

Safety Drills

Last BOP Test (P)	2/22/2002
Last BOP Test (F)	2/22/2002
Last BOP Drill	

Survey Data

MD (m)	Incl.	Azimuth	TVD (m)	N/S (-) (m)	E/W (-) (m)	Section	DLS (°/30m)	BUR (°/30m)
30.00	0.250	0.000	0.00	0.00	0.00	0.00	0.00	0.00
59.00	0.500	0.000	0.00	0.00	0.00	0.00	0.00	0.00
97.00	0.250	0.000	0.00	0.00	0.00	0.00	0.00	0.00
126.00	0.250	0.000	0.00	0.00	0.00	0.00	0.00	0.00
153.00	0.250	0.000	0.00	0.00	0.00	0.00	0.00	0.00
181.00	0.750	0.000	0.00	0.00	0.00	0.00	0.00	0.00
206.00	0.500	0.000	0.00	0.00	0.00	0.00	0.00	0.00

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 2/24/2002	Report: 6	DFS: 2.00	DOL: 5.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name:	AKITA 55	TMD:	535.00 (m)	TVD:	535.00 (m)	Progress:	288.00 (m)
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super:	JIM ELLIOTT 403-818-7074	Rot. Hours:	20.00	AV ROP:	14.40	Hole Size:	311.20 (mm)
Wellsite Eng:	STAN WEICH 403-231-0190	Last Casing:		Shoe TMD:		Shoe TVD:	
Daily Cost:	770,250	Cum Cost:	1,062,182	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: PUMPING OUT SINGLES AT 430 M, DEPTH AT 550 M,

DRILL, RIG SERVICE, CIRCULATE, SURVEYS

24hr Forecast: WIPPER TRIP, DRILL TO 560 M TRIP OUT RUN CASING,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 10:15	10.25	02	B	PDRLSUR	DRILL 311 MM HOLE FROM 247 M TO 429 M,
10:15 - 11:45	1.50	10		PDRLSUR	ACCUMULATED SURVEY TIMES,
11:45 - 12:00	0.25	07	A	PDRLSUR	RIG SERVICE,
12:00 - 21:45	9.75	02	B	PDRLSUR	DRILL 311 MM HOLE FROM 429 M TO 535 M,
21:45 - 22:45	1.00	10		PDRLSUR	ACCUMULATED SURVEY TIMES,
22:45 - 23:45	1.00	05	K	PDRLSUR	CIRCULATE CONDITION MUD, MUD CLOBBERED UP
23:45 - 00:00	0.25	07	A	PDRLSUR	RIG SERVICE, FUNCTION DIVERTER CLOSE 14 SEC.,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
					Bkgr Avg/Max (mg/L)	
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 2/24/2002 | Report: 6 | DFS: 2.00 | DOL: 5.00

Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800	F-800
Liner (mm)	152.4	152.4
Stroke (mm)	215.9	215.9
EFF	98.0	98.0
Press (kPa)	6,500	6,500
SPM	85	85
Output (L/mi	984.19	984.19

Velocities

Drill Pipe	(m/min)	29.3
Drill Collar	(m/min)	35.5
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1:	GEL CHEM				
Time/Ldg	3:35 / IN		Ca+ (mg/L)	20	
Depth	(m)	535.00	K+ (mg/L)		
Temp	(°C)	79	Polymer (kg/m³)		
Density	(kg/m³)	1,110	CaCl2 (%)		
ECD	(kg/m³)		NaCl (%)		
Viscosity	(s/l)	74	Sand (%)		
PV	(mPa*s)	13.0	Tot. Solids		
YP	(Pa)	14.0	% Oil		
GELS	(Pa)	29.2/79.4/2.1	% H2O		
API WL	(mL)	20.0	Oil/H2O	/	
HTHP WL	(mL)		HGSolid (kg/m³)		
API FC	(mm)	3.8	LGSolid (kg/m³)		
MBT	(kg/m³)		ES (mV)		
Lime	(kg/m³)		Oil Ret (%)		
pH		10.00			
Pm	(cm³)	0.3			
Pf/Mf	(cm³ / cm³	0.40 /			

Comment1:

Mud Products

Additive	# Units
BENTONITE (NO	16
VAN RENTAL	1

Mud Cost

Daily	$418.20
Cumulative	$5,210.00

Bit Data

Bit No.	1A	
Run	1	
Size (mm)	311.20	
Manu.	Hughes	
Type	ATJ-	
Serial No.	P75EM	
TFA (mm²)	595.7	
Depth In (m)		
Depth Out (m)	550.00	
Cum. Depth (m)	535.00	
Cum. Hours	35.75	
WOB (Min)(daN)	2,000	
WOB (Max)(daN)	7,000	
RPM (Min)	120	
RPM (Max)	200	
Cond (IODL)	3/3/BT/M	
Cond (BGOR)	8/ I/BT/BC	
Jets 1/2/3	15.9//15.9	
Jets 4/5/6	/15.9/	

Pipe Data

Min ID	(mm)	
DC OD	(mm)	228.00
DC	(m)	247.00
HWDP OD	(mm)	101.60
HWDP	(m)	60.00
BHA		187.16
DP OD	(mm)	101.60
String Rot Weight	(daN)	28,000
Pick-Up Weight	(daN)	30,000
Slack Off Weight	(daN)	27,000

BHA Desc.: SURFACE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.30
Drill Collar	2	17.43
Cross Over	2	1.29
Drill Collar	9	85.65
Cross Over	1	0.22
Heavy Weight Drill Pipe	9	82.27

Safety Drills

Last BOP Test (P)	2/22/2002
Last BOP Test (F)	2/22/2002
Last BOP Drill	

Survey Data

MD (m)	Incl.	Azimuth	TVD (m)	N/S (-) (m)	E/W (-) (m)	Section	DLS (°/30m)	BUR (°/30m)
235.00	0.250	0.000	0.00	0.00	0.00	0.00	0.00	0.00
264.00	0.500	0.000	0.00	0.00	0.00	0.00	0.00	0.00
293.00	0.500	0.000	0.00	0.00	0.00	0.00	0.00	0.00
322.00	0.750	0.000	0.00	0.00	0.00	0.00	0.00	0.00
355.00	0.500	0.000	0.00	0.00	0.00	0.00	0.00	0.00
439.00	0.500	0.000	0.00	0.00	0.00	0.00	0.00	0.00
468.00	0.500	0.000	0.00	0.00	0.00	0.00	0.00	0.00
497.00	0.500	0.000	0.00	0.00	0.00	0.00	0.00	0.00
524.00	0.750	0.000	0.00	0.00	0.00	0.00	0.00	0.00

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 2/25/2002	Report: 7	DFS: 3.00	DOL: 6.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name: AKITA 55		TMD: 550.00 (m)	TVD: 550.00 (m)	Progress: 15.00 (m)			
		KB: 654.01 (m)	GL: 649.30 (m)	KB to GL: 4.71 (m)			
Rig Super: JIM ELLIOTT 403-818-7074		Rot. Hours:	AV ROP:	Hole Size: 311.20 (mm)			
Wellsite Eng: STAN WEICH 403-231-0190		Last Casing:	Shoe TMD:	Shoe TVD:			
Daily Cost: 30,769		Cum Cost: 1,092,951	AFE Est: 3,256,200	AFE No.: 0143002			

Current Status: CIRULATING CONDITION MUD @ 560 M,

DRILL, CIRCULATE, TRIP OUT,SLIP & CUT, TRIP IN, CIR. WIPPER TRIP, CIR.

24hr Forecast: CIRULATE CONDITION MUD POH RUN CASING,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 01:45	1.75	02	B	P DRLSUR	DRILL 311 MM SURFACE HOLE FROM 535 M TO 550 M,
01:45 - 02:15	0.50	05	K	P DRLSUR	CIRCULATE BOTTOMS UP,
02:15 - 13:00	10.75	06	H	P DRLSUR	TRIP OUT OF HOLE BACK REAM CIRULATE,(JUNK FOR MATION ABOVE BIT),
13:00 - 15:00	2.00	06	A	P DRLSUR	TRIP IN BHA,
15:00 - 15:45	0.75	09		P DRLSUR	SLIP & CUT DRILLING LINE,
15:45 - 23:15	7.50	06	A	P DRLSUR	PICK UP SINGLES, REAM BRIDGES MOST OF THE WAY IN THE HOLE,
23:15 - 23:30	0.25	07	A	P DRLSUR	RIG SERVICE,
23:30 - 00:00	0.50	05	A	P DRLSUR	CIRCULATE CONDITION MUD,

DAILY OPERATIONAL COMMENTS(24hr Summary):
1

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
					Bkgr Avg/Max (mg/L)	
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 2/25/2002 | Report: 7 | DFS: 3.00 | DOL: 6.00

Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800	F-800
Liner (mm)	152.4	152.4
Stroke (mm)	215.9	215.9
EFF	98.0	98.0
Press (kPa)	6,500	6,500
SPM	85	85
Output (L/mi	984.19	984.19

Velocities

Drill Pipe	(m/min)	28.8
Drill Collar	(m/min)	34.8
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1: GEL CHEM

Time/Last	22:20 / IN		Ca+ (mg/L)	120	
Depth	(m)	550.00	K+ (mg/L)		
Temp	(°C)	26	Polymer (kg/m³)		
Density	(kg/m³)	1,180	CaCl2 (%)	20.00	
ECD	(kg/m³)		NaCl (%)		
Viscosity	(s/l)	65	Sand (%)		
PV	(mPa*s)	16.0	Tot. Solids	280.000	
YP	(Pa)	7.1	% Oil		
GELS	(Pa)	4.0/36.0/1.0	% H2O		
API WL	(mL)	10.0	Oil/H2O	/	
HTHP WL	(mL)		HGSolid (kg/m³)		
API FC	(mm)	3.0	LGSolid (kg/m³)		
MBT	(kg/m³)		ES (mV)		
Lime	(kg/m³)		Oil Ret (%)		
pH		9.50			
Pm	(cm³)	0.2			
Pf/Mf	(cm³ / cm³)	0.30 /			

Comment1:

Mud Products

Additive	# Units
VAN RENTAL	1

Mud Cost

Daily	$55.00
Cumulative	$5,265.00

Bit Data

Bit No.	2A	1A
Run	2	1
Size (mm)	12.24	311.20
Manu.	Hughes	Hughes
Type	GT-1	ATJ-
Serial No.	X16HS	P75EM
TFA (mm²)	595.7	595.7
Depth In (m)	550.00	
Depth Out (m)	560.00	550.00
Cum. Depth (m)		550.00
Cum. Hours		37.50
WOB (Min)(daN)		2,000
WOB (Max)(daN)		13,489
RPM (Min)		120
RPM (Max)		200
Cond (IODL)	1/1/0/	3/3/BT/M
Cond (BGOR)	0/ I/0/TD	8/ I/BT/BC
Jets 1/2/3	15.9//15.9	15.9//15.9
Jets 4/5/6	/15.9/	/15.9/

Pipe Data

Min ID	(mm)	
DC OD	(mm)	230.00
DC	(m)	560.00
HWDP OD	(mm)	101.60
HWDP	(m)	445.00
BHA		114.39
DP OD	(mm)	101.60
String Rot Weight	(daN)	28,000
Pick-Up Weight	(daN)	30,000
Slack Off Weight	(daN)	27,000

BHA Desc.: SURFACE HOLE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.30
Drill Collar	2	17.43
Cross Over	2	1.29
Drill Collar	9	85.65
Cross Over	1	0.22
Heavy Weight Drill Pipe	1	9.50

Safety Drills

Last BOP Test (P)	2/22/2002
Last BOP Test (F)	2/22/2002
Last BOP Drill	

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 2/26/2002	Report: 8	DFS: 4.00	DOL: 7.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name:	AKITA 55	TMD:	560.00 (m)	TVD:	560.00 (m)	Progress:	10.00 (m)
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super:	JIM ELLIOTT 403-818-7074	Rot. Hours:	1.25	AV ROP:	8.00	Hole Size:	311.20 (mm)
Wellsite Eng:	STAN WEICH 403-231-0190	Last Casing:		Shoe TMD:		Shoe TVD:	
Daily Cost:	96,519	Cum Cost:	1,189,469	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: TRIPPING OUT CEMENT STINGER,

DRILL, WIPER TRIPS,CIRCULATE, RUN SURFACE CASING,

24hr Forecast: NIPPLE DOWN DIVERTER, NIPPLE UP BOPS,

Operations Summary

From - To	Hours	Code	Sub Code		Phase	Description of Operations
00:00 - 01:15	1.25	02	B	P	DRLSUR	DRILL 311 MM SURFACE HOLE FROM 550 M TO 560 M,
01:15 - 01:45	0.50	05	K	P	DRLSUR	CIRCULATE CONDITION HOLE,
01:45 - 02:00	0.25	10		P	DRLSUR	RUN SURVEY AT 551 M,
02:00 - 06:00	4.00	06	H	P	DRLSUR	WIPER TRIP UP TO DC., BRIDGE AT 345 M,
06:00 - 07:30	1.50	05	K	P	DRLSUR	CIRCULATE CONDITION HOLE,
07:30 - 08:45	1.25	06	H	P	DRLSUR	WIPER TRIP UP TO 300 M OK,
08:45 - 09:00	0.25	05	K	P	DRLSUR	CIRCULATE CONDITION HOLE,
09:00 - 11:45	2.75	06	G	P	DRLSUR	TRIP OUT OF HOLE LAYDOWN 9" DC, HOLE GOOD ON TRIP OUT,
11:45 - 17:00	5.25	12	A	P	DRLSUR	HELD SAFETY MEETING, RIG UP AND RUN 40 JTS OF K-55 59.5 kg/m 244.5 mm CASING
17:00 - 18:15	1.25	05	H	P	DRLSUR	CIRCULATE HOLE CLEAN,
18:15 - 22:15	4.00	12	C	P	DRLSUR	RUN DP CEMENT STINGER TO 538 M,
22:15 - 23:45	1.50	05	H	P	DRLSUR	CIRCULATE CONDITION MUD FOR CEMEMTING
23:45 - 00:00	0.25	12	A	P	DRLSUR	HELD SAFETY MEETING,RIG TO CEMENT,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max	(mg/L)
					Bkgr Avg/Max	(mg/L)
					Trip Avg/Max	(mg/L)
					H2S	(%)

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 2/26/2002 | Report: 8 | DFS: 4.00 | DOL: 7.00
Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800	F-800
Liner (mm)	152.4	152.4
Stroke (mm)	215.9	215.9
EFF	98.0	98.0
Press (kPa)	6,500	6,500
SPM	85	85
Output (L/mi	984.19	984.19

Velocities

Drill Pipe	(m/min)	28.8
Drill Collar	(m/min)	34.8
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1: GEL CHEM

Time/Lo	22:00 / IN		Ca+	(mg/L)	
Depth	(m)	560.00	K+	(mg/L)	
Temp	(°C)	26	Polymer	(kg/m³)	
Density	(kg/m³)	1,140	CaCl2	(%)	
ECD	(kg/m³)		NaCl	(%)	
Viscosity	(s/l)	45	Sand	(%)	
PV	(mPa*s)	11.0	Tot. Solids		
YP	(Pa)	4.3	% Oil		
GELS	(Pa)	2.0/25.0/1.0	% H2O		
API WL	(mL)	9.0	Oil/H2O		/
HTHP WL	(mL)		HGSolid	(kg/m³)	
API FC	(mm)		LGSolid	(kg/m³)	
MBT	(kg/m³)		ES	(mV)	
Lime	(kg/m³)		Oil Ret	(%)	
pH		9.50			
Pm	(cm³)	0.2			
Pf/Mf	(cm³ / cm³	3.00 /			

Comment1:

Mud Products

Additive	# Units
DESCO CF	1
BENTONITE (NO	8
VAN RENTAL	1

Mud Cost

Daily	$337.30
Cumulative	$5,603.00

Bit Data

Bit No.	2A	
Run	2	
Size (mm)	12.24	
Manu.	Hughes	
Type	GT-1	
Serial No.	X16HS	
TFA (mm²	595.7	
Depth In (m)	550.00	
Depth Out (m)	560.00	
Cum. Depth (m)	10.00	
Cum. Hours	1.15	
WOB (Min)(daN)	4,000	
WOB (Max)(daN)	7,000	
RPM (Min)		
RPM (Max)		
Cond (IODL)	1/1/0/	
Cond (BGOR)	0/ I/0/TD	
Jets 1/2/3	15.9//15.9	
Jets 4/5/6	/15.9/	

Pipe Data

Min ID	(mm)	
DC OD	(mm)	230.00
DC	(m)	560.00
HWDP OD	(mm)	101.60
HWDP	(m)	445.00
BHA		114.39
DP OD	(mm)	101.60
String Rot Weight	(daN)	29,000
Pick-Up Weight	(daN)	30,000
Slack Off Weight	(daN)	28,000

BHA Desc.: SURFACE HOLE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.30
Drill Collar	2	17.43
Cross Over	2	1.29
Drill Collar	9	85.65
Cross Over	1	0.22
Heavy Weight Drill Pipe	1	9.50

Safety Drills

Last BOP Test (P)	2/22/2002
Last BOP Test (F)	2/22/2002
Last BOP Drill	

Survey Data

MD (m)	Incl.	Azimuth	TVD (m)	N/S (-) (m)	E/W (-) (m)	Section	DLS (°/30m)	BUR (°/30m)
551.00	0.750	0.000	0.00	0.00	0.00	0.00	0.00	0.00

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 2/27/2002	Report: 9	DFS: 5.00	DOL: 8.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name:	AKITA 55	TMD:	560.00 (m)	TVD:	560.00 (m)	Progress:	
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super:	JIM ELLIOTT 403-818-7074	Rot. Hours:		AV ROP:		Hole Size:	215.90 (mm)
Wellsite Eng:	STAN WEICH 403-231-0190	Last Casing:	244.500 (mm)	Shoe TMD:	559.00 (m)	Shoe TVD:	559.00 (m)
Daily Cost:	106,099	Cum Cost:	1,295,568	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: NIPPLE UP BOPS,

CEMENT SURFACE CASING, TRIP OUT CEMENT STINGER, NIPPLE BOPS,

24hr Forecast: NIPPLE UP BOPS, TEST,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 01:30	1.50	12	C P	DRLSUR	CEMENT 244.5 mm SURFACE CASING SHOE AT 559 M, WITH 6 m3 OF 2.27% SAPP PREFLUSH, 31.7 TONNES OF 0-1-0 CLASS G CEMENT, 1% CaC12 , 24 m3 SLURRY WT 1900 kg/m3 DISPLACE DP W/ 3.20 m3 WATER,
01:30 - 03:30	2.00	05	K P	DRLSUR	DISPLACE MUD OUT OF CASING TO WATER,
03:30 - 04:15	0.75	06	G P	DRLSUR	RIG DOWN IMPORT TOOLS PACK OF HEAD,
04:15 - 05:45	1.50	05	F P	DRLSUR	BLOW MUD LINES & KELLY RAT HOLE W/ STEAM,
05:45 - 08:45	3.00	06	F P	DRLSUR	TRIP OUT CEMENT STINGER,
08:45 - 15:00	6.25	14	A P	DRLSUR	NIPPLE DOWN DIVERTER,
15:00 - 22:45	7.75	14	A P	DRLSUR	CUT CONDUCTOR CLEAN OUT CELLAR WELL ON CASING BOWL(TEST WELD TO 15000 KPA OK,)
22:45 - 23:00	0.25	07	A P	DRLSUR	RIG SERVICE,
23:00 - 00:00	1.00	14	A P	DRLSUR	NIPPLE UP BOPS,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max	(mg/L)
					Bkgr Avg/Max	(mg/L)
					Trip Avg/Max	(mg/L)
					H2S	(%)

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 2/27/2002 | Report: 9 | DFS: 5.00 | DOL: 8.00
Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump			
Liner			
Stroke			
EFF			
Press			
SPM			
Output			

Velocities

Drill Pipe	(m/min)	
Drill Collar	(m/min)	
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1: GEL CHEM

Time/Loc		Ca+ (mg/L)	
Depth (m)		K+ (mg/L)	
Temp (°C)		Polymer (kg/m³)	
Density (kg/m³)		CaCl2 (%)	
ECD (kg/m³)		NaCl (%)	
Viscosity (s/l)		Sand (%)	
PV (mPa*s)		Tot. Solids	
YP (Pa)		% Oil	
GELS (Pa)		% H2O	
API WL (mL)		Oil/H2O	
HTHP WL (mL)		HGSolid (kg/m³)	
API FC (mm)		LGSolid (kg/m³)	
MBT (kg/m³)		ES (mV)	
Lime (kg/m³)		Oil Ret (%)	
pH			
Pm (cm³)			
Pf/Mf (cm³ / cm³)			

Comment1:

Mud Products

Additive	# Units
SAWDUST	37
VAN RENTAL	1

Mud Cost

Daily	$325.10
Cumulative	$5,928.00

Bit Data

Bit No.		
Run		
Size		
Manu.		
Type		
Serial No.		
TFA		
Depth In		
Depth Out		
Cum. Depth		
Cum. Hours		
WOB (Min)		
WOB (Max)		
RPM (Min)		
RPM (Max)		
Cond (IODL)		
Cond (BGOR)		
Jets 1/2/3		
Jets 4/5/6		

Pipe Data

Min ID	
DC OD	
DC	
HWDP OD	
HWDP	
BHA	
DP OD	
String Rot Weight	
Pick-Up Weight	
Slack Off Weight	

BHA Desc.:

Item	Jts	Length

Safety Drills

Last BOP Test (P)	2/22/2002
Last BOP Test (F)	2/22/2002
Last BOP Drill	

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 2/28/2002	Report: 10	DFS: 6.00	DOL: 9.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name: AKITA 55	TMD: 560.00 (m)	TVD: 560.00 (m)	Progress:				
	KB: 654.01 (m)	GL: 649.30 (m)	KB to GL: 4.71 (m)				
Rig Super: JIM ELLIOTT 403-818-7074	Rot. Hours:	AV ROP:	Hole Size: 215.90 (mm)				
Wellsite Eng: STAN WEICH 403-231-0190	Last Casing: 244.500 (mm)	Shoe TMD: 559.00 (m)	Shoe TVD: 559.00 (m)				
Daily Cost: 61,017	Cum Cost: 1,356,585	AFE Est: 3,256,200	AFE No.: 0143002				

Current Status: NIPPLING DOWN LOWER RAMS,

NIPPLE UP BOP STACK AND CHOKE MANIFOLD, START TESTING,

24hr Forecast: TEST BOPS, MAKE UP BHA, JACK RIG, DRILL OUT,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 14:00	14.00	14	A	P DRLIN1	NIPPLE UP BOP STACK,CHOKE LINES, FLARE STACK LINES,
14:00 - 00:00	10.00			P DRLIN1	TEST CASING AND BLIND RAMS TO 1400 KPA LOW 21000 KPA HIGH 10 MINS EACH,TESTED CHOKE MANIFOLD VALVES LINES REPAIRED LEAKS, 1400 KPA LOW 21000 KPA HIGH EACH,

DAILY OPERATIONAL COMMENTS(24hr Summary):
PIPE RAMS WOULD NOT HOLD PRESSURE, OPEN TOP RAMS DAMAGED RUBBER ON RAM BLOCKS DUE TO CEMENT IN STACK, HAVING TO NIPPLE DOWN BOP AND TURN BOTTOM RAMS TO COMPLETELY OPEN DOOR ON RAM POCKET,

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
					Bkgr Avg/Max (mg/L)	
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 2/28/2002 | Report: 10 | DFS: 6.00 | DOL: 9.00

Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump			
Liner			
Stroke			
EFF			
Press			
SPM			
Output			

Velocities

Drill Pipe	(m/min)	
Drill Collar	(m/min)	
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1: GEL CHEM

Time/Loc		Ca+ (mg/L)	
Depth (m)		K+ (mg/L)	
Temp (°C)		Polymer (kg/m³)	
Density (kg/m³)		CaCl2 (%)	
ECD (kg/m³)		NaCl (%)	
Viscosity (s/l)		Sand (%)	
PV (mPa*s)		Tot. Solids	
YP (Pa)		% Oil	
GELS (Pa)		% H2O	
API WL (mL)		Oil/H2O	
HTHP WL (mL)		HGSolid (kg/m³)	
API FC (mm)		LGSolid (kg/m³)	
MBT (kg/m³)		ES (mV)	
Lime (kg/m³)		Oil Ret (%)	
pH			
Pm (cm³)			
Pf/Mf (cm³ / cm³)			

Comment1:

Mud Products

Additive	# Units

Mud Cost

Daily	$0.00
Cumulative	$5,928.00

Bit Data

Bit No.		
Run		
Size		
Manu.		
Type		
Serial No.		
TFA		
Depth In		
Depth Out		
Cum. Depth		
Cum. Hours		
WOB (Min)		
WOB (Max)		
RPM (Min)		
RPM (Max)		
Cond (IODL)		
Cond (BGOR)		
Jets 1/2/3		
Jets 4/5/6		

Pipe Data

Min ID	
DC OD	
DC	
HWDP OD	
HWDP	
BHA	
DP OD	
String Rot Weight	
Pick-Up Weight	
Slack Off Weight	

BHA Desc.:

Item	Jts	Length

Safety Drills

Last BOP Test (P)	2/22/2002
Last BOP Test (F)	2/22/2002
Last BOP Drill	

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/1/2002 | Report: 11 | DFS: 7.00 | DOL: 10.00
Event Name: ORIG DRILLING | Spud: 2/23/2002 | RR:

Rig Name:	AKITA 55	TMD:	560.00 (m)	TVD:	560.00 (m)	Progress:	
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super:	JIM ELLIOTT 403-818-7074	Rot. Hours:		AV ROP:		Hole Size:	215.90 (mm)
Wellsite Eng:	STAN WEICH 403-231-0190	Last Casing:	244.500 (mm)	Shoe TMD:	559.00 (m)	Shoe TVD:	559.00 (m)
Daily Cost:	37,279	Cum Cost:	1,393,863	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: BLOWING KELLY, START TO LAY DOWN PIPE, MAKE BHA,

TEST AND REPAIR BOPS LINES, VALVES,

24hr Forecast: LAYDOWN DP, MAKE UP BHA,DRILL OUT, DO LOT TEST,DRILL AHEAD,

Operations Summary

From - To	Hours	Code	Sub Code		Phase	Description of Operations
00:00 - 14:00	14.00	08	D	X	DRLIN1	REPAIR UPPER AND LOWER PIPE RAMS, TURN RAM BODY FOR DOOR OPENNING,
14:00 - 00:00	10.00	15	A	X	DRLIN1	TEST BOPS, UPPER & LOWER PIPE RAMS, KILL & CHOKE VALVES, CHECK VALVES,CHOKE & KILL LINES, UPPER KELLY COCK, TO 1400 KPA LOW 21000 KPA HIGH 10 MINS. EACH, ANNULAR BOP TO 1400 KPA LOW 10500 KPA HIGH 10 MINS EACH, LOWER KELLY COCK WILLBE CHANGED OUT WHEN HOT SHOT ARRIVES,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
					Bkgr Avg/Max (mg/L)	
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/1/2002 | Report: 11 | DFS: 7.00 | DOL: 10.00

Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump			
Liner			
Stroke			
EFF			
Press			
SPM			
Output			

Velocities

Drill Pipe	(m/min)	
Drill Collar	(m/min)	
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1: GEL CHEM

Time/Loc		Ca+ (mg/L)	
Depth (m)		K+ (mg/L)	
Temp (°C)		Polymer (kg/m³)	
Density (kg/m³)		CaCl2 (%)	
ECD (kg/m³)		NaCl (%)	
Viscosity (s/l)		Sand (%)	
PV (mPa*s)		Tot. Solids	
YP (Pa)		% Oil	
GELS (Pa)		% H2O	
API WL (mL)		Oil/H2O	
HTHP WL (mL)		HGSolid (kg/m³)	
API FC (mm)		LGSolid (kg/m³)	
MBT (kg/m³)		ES (mV)	
Lime (kg/m³)		Oil Ret (%)	
pH			
Pm (cm³)			
Pf/Mf (cm³ / cm³)			

Comment1:

Mud Products

Additive	# Units

Mud Cost

Daily	$0.00
Cumulative	$5,928.00

Bit Data

Bit No.		
Run		
Size		
Manu.		
Type		
Serial No.		
TFA		
Depth In		
Depth Out		
Cum. Depth		
Cum. Hours		
WOB (Min)		
WOB (Max)		
RPM (Min)		
RPM (Max)		
Cond (IODL)		
Cond (BGOR)		
Jets 1/2/3		
Jets 4/5/6		

Pipe Data

Min ID	
DC OD	
DC	
HWDP OD	
HWDP	
BHA	
DP OD	
String Rot	
Weight	
Pick-Up	
Weight	
Slack Off	
Weight	

BHA Desc.:

Item	Jts	Length

Safety Drills

Last BOP Test (P)	2/22/2002
Last BOP Test (F)	2/22/2002
Last BOP Drill	

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 3/2/2002	Report: 12	DFS: 8.00	DOL: 11.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name: AKITA 55	TMD:	580.00 (m)	TVD:	580.00 (m)	Progress:	20.00 (m)	
	KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)	
Rig Super: JIM ELLIOTT 403-818-7074	Rot. Hours:	1.00	AV ROP:	20.00	Hole Size:	215.90 (mm)	
Wellsite Eng: STAN WEICH 403-231-0190	Last Casing:	244.500 (mm)	Shoe TMD:	559.00 (m)	Shoe TVD:	559.00 (m)	
Daily Cost: 59,080	Cum Cost:	1,452,944	AFE Est:	3,256,200	AFE No.:	0143002	

Current Status: DRILLING 215.9 MM @ 702 M,

REPAIR STANDPIPE VALVES, CHANGE BHA, JACK RIG, DRILL OUT, DRILL,

24hr Forecast: DRILL AHEAD,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 05:00	5.00	08	A	XDRLIN1	WORK ON STAND PIPE VALVES,
05:00 - 06:30	1.50	15	B	XDRLIN1	TEST STANDPIPE AND VALVES TO 21000 KPA,
06:30 - 08:30	2.00	06	J	XDRLIN1	TRIP IN HOLE,JACK RIG,
08:30 - 10:30	2.00	05	A	XDRLIN1	DISPLACE HOLE TO INVERT MUD,
10:30 - 16:15	5.75	06	J	XDRLIN1	TRIP OUT CHANGE BHA,
16:15 - 16:45	0.50	21	B	XDRLIN1	HELD SAFETY MEETING, BOP DRILL, FIRE DRILL,
16:45 - 17:00	0.25	07	A	XDRLIN1	RIG SERVICE, FUNCTION MOTOR KILLS OK,
17:00 - 17:45	0.75	05	A	XDRLIN1	MWD SHALLOW TEST,
17:45 - 20:00	2.25	06	J	XDRLIN1	TRIP IN HOLE BREAK CIRCULATION,
20:00 - 20:15	0.25	21	A	XDRLIN1	HELD SAFETY MEETING WITH NIGHT CREW,REGARDIN G INVERT MUD,
20:15 - 22:00	1.75	02	C	XDRLIN1	DRILL OUT FLOAT COLLAR, CEMENT, SHOE TRACK, DR ILL TO 565 M,
22:00 - 23:00	1.00	05	B	XDRLIN1	CIRCULATE BOTTOMS UP,DO EQUIVELANT LEAKOFF T EST MUD WT DENSITY OF 2100 kg.m3, OK,
23:00 - 00:00	1.00	02	H	XDRLIN1	DRILL 215.9 MM HOLE FROM 560 M TO 580 M,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
2,200.9	7,210	900.0	GARBUTT		Bkgr Avg/Max (mg/L)	
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/2/2002 | Report: 12 | DFS: 8.00 | DOL: 11.00

Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800		
Liner (mm)	152.4		
Stroke (mm)	215.9		
EFF	98.0		
Press (kPa)	9,300		
SPM	110		
Output (L/mi	1,273.66		

Velocities

Drill Pipe	(m/min)	44.7
Drill Collar	(m/min)	83.7
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1:	ENVIROVERT				
Time/Lab	21:45 / IN		Ca+ (mg/L)		
Depth	(m)	565.00	K+ (mg/L)		
Temp	(°C)	20	Polymer (kg/m³)		
Density	(kg/m³)	900	CaCl2 (%)		
ECD	(kg/m³)	922	NaCl (%)	0.50	
Viscosity	(s/l)	65	Sand (%)		
PV	(mPa*s)	11.0	Tot. Solids		
YP	(Pa)	5.3	% Oil	82.0	
GELS	(Pa)	2.0/3.0/	% H2O	15.0	
API WL	(mL)		Oil/H2O		
HTHP WL	(mL)	0.5	HGSolid (kg/m³)		
API FC	(mm)		LGSolid (kg/m³)		
MBT	(kg/m³)		ES (mV)	408	
Lime	(kg/m³)		Oil Ret (%)		
pH					
Pm	(cm³)				
Pf/Mf	(cm³ / cm³)				
Comment1:					

Mud Products

Additive	# Units
MILGEL	14
SAWDUST	47
SAPP	1
CARBOGEL	5

Mud Cost

Daily	$2,334.75
Cumulative	$8,262.00

Bit Data

Bit No.	3	
Run	3	
Size (mm)	215.90	
Manu.	DOWDCO	
Type	TM266	
Serial No.	D-1266	
TFA (mm²)	667.3	
Depth In (m)	560.00	
Depth Out (m)	1,447.00	
Cum. Depth (m)	20.00	
Cum. Hours	1.00	
WOB (Min)(daN)		
WOB (Max)(daN)	3	
RPM (Min)	24	
RPM (Max)	23	
Cond (IODL)		
Cond (BGOR)	0/ I//	
Jets 1/2/3	11.9/11.9/11.9	
Jets 4/5/6	11.9/11.9/11.9	

Pipe Data

Min ID	(mm)	
DC OD	(mm)	215.90
DC	(m)	1,321.00
HWDP OD	(mm)	101.30
HWDP	(m)	1,032.00
BHA		289.98
DP OD	(mm)	101.30
String Rot Weight	(daN)	27,000
Pick-Up Weight	(daN)	29,000
Slack Off Weight	(daN)	26,000

BHA Desc.: INTERMEDIATE HOLE

Item	Jts	Length (m)
Polycrystalline Diamond Bit	1	0.25
Bent Housing	1	7.90
Float Sub	1	0.63
Non-Mag Drill Collar	1	9.48
MWD Tool	1	1.97
Non-Mag Drill Collar	1	9.52
Non-Mag Drill Collar	1	9.45
Cross Over	1	0.94
Drill Collar	3	28.65
Drilling Jar	1	9.84
Drill Collar	1	9.56
Cross Over	1	0.22
Heavy Weight Drill Pipe	22	201.57

Safety Drills

Last BOP Test (P)	3/2/2002
Last BOP Test (F)	3/3/2002
Last BOP Drill	3/2/2002

Survey Data

MD (m)	Incl.	Azimuth	TVD (m)	N/S (-) (m)	E/W (-) (m)	Section	DLS (°/30m)	BUR (°/30m)
559.00	0.000	0.000	559.00	0.00	0.00	0.00	2.81	-2.81
564.76	0.300	169.500	564.76	-0.01	0.00	0.01	1.56	1.56
594.66	0.300	246.100	594.66	-0.12	-0.05	0.06	0.37	0.00
642.73	0.200	278.800	642.73	-0.16	-0.25	-0.04	0.11	-0.06

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 3/3/2002	Report: 13	DFS: 9.00	DOL: 12.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name:	AKITA 55	TMD:	1,003.00 (m)	TVD:	1,003.00 (m)	Progress:	423.00 (m)
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super:	JIM ELLIOTT 403-818-7074	Rot. Hours:	21.75	AV ROP:	19.45	Hole Size:	215.90 (mm)
Wellsite Eng:	STAN WEICH 403-231-0190	Last Casing:	244.500 (mm)	Shoe TMD:	559.00 (m)	Shoe TVD:	559.00 (m)
Daily Cost:	44,301	Cum Cost:	1,497,244	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: DRILLING 215.9 MM HOLE @ 1070 M,

DRILL SLIDE, RIG SERVICE, SURVEYS,

24hr Forecast: DRILL AHEAD BUILD ANGLE

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 05:15	5.25	02	H	PDRLIN1	DRILL 215.9 mm HOLE FROM 580 M TO 705 M,
05:15 - 05:30	0.25	05	J	PDRLIN1	CIRCULATE CLEAN OUT FLOW LINE PLUGGED W/ SHALE,
05:30 - 05:45	0.25	07	A	PDRLIN1	RIG SERVICE, FUNCTION REMOTE CHOKE,
05:45 - 14:30	8.75	02	H	PDRLIN1	DRILL 215.9 mm HOLE WITH SLIDES FROM 705 M TO 857 M,
14:30 - 14:45	0.25	07	A	PDRLIN1	RIG SERVICE,FUNCTION UPPER PIPE RAMS CLOSE 6 SEC.,
14:45 - 22:30	7.75	02	H	PDRLIN1	DRILL 215.9 mm HOLE WITH SLIDES FROM 857 M TO 1003M,
22:30 - 00:00	1.50	10		PDRLIN1	ACCUMULATED SURVEY TIMES,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
2,131.8	0	2,131.8	KOTCHO	739.00	Bkgr Avg/Max (mg/L)	54/87
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/3/2002 | Report: 13 | DFS: 9.00 | DOL: 12.00
Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800		
Liner (mm)	152.4		
Stroke (mm)	215.9		
EFF	98.0		
Press (kPa)	9,300		
SPM	110		
Output (L/mi	1,273.66		

Velocities

Drill Pipe	(m/min)	47.5
Drill Collar	(m/min)	89.0
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump F-800	887 (kPa)	672.45 (L/min)
Pump	(kPa)	(L/min)
Pump	(kPa)	(L/min)

Mud Check

Type 1: ENVIROVERT

Time/Loc	09:15 /		Ca+ (mg/L)		
Depth	(m)	761.00	K+ (mg/L)		
Temp	(°C)	29	Polymer (kg/m³)		
Density	(kg/m³)	910	CaCl2 (%)	15.30	
ECD	(kg/m³)	927	NaCl (%)		
Viscosity	(s/l)	58	Sand (%)	0.002	
PV	(mPa*s)	15.0	Tot. Solids	4.000	
YP	(Pa)	2.0	% Oil	83.0	
GELS	(Pa)	2.0/3.0/	% H2O	13.0	
API WL	(mL)		Oil/H2O		
HTHP WL	(mL)	35.0	HGSolid (kg/m³)		
API FC	(mm)		LGSolid (kg/m³)		
MBT	(kg/m³)		ES (mV)	649	
Lime	(kg/m³)	25.8	Oil Ret (%)		
pH					
Pm	(cm³)				
Pf/Mf	(cm³ / cm³				

Comment1:

Mud Products

Additive	# Units
LIME	10
CALCIUM CARB	1
FLOOR DRY	2
CALCIUM CHLO	20
CARBOTEC	1
CARBOMUL (DF	1

Mud Cost

Daily	$4,347.50
Cumulative	$12,610.00

Bit Data

Bit No.	3	
Run	3	
Size (mm)	215.90	
Manu.	DOWDCO	
Type	TM266	
Serial No.	D-1266	
TFA (mm²)	667.3	
Depth In (m)	560.00	
Depth Out (m)	1,447.00	
Cum. Depth (m)	443.00	
Cum. Hours	22.75	
WOB (Min)(daN)		
WOB (Max)(daN)	4	
RPM (Min)	24	
RPM (Max)	23	
Cond (IO/D/L)		
Cond (B/G/O/R)	0/ I//	
Jets 1/2/3	11.9/11.9/11.9	
Jets 4/5/6	11.9/11.9/11.9	

Pipe Data

Min ID	(mm)	
DC OD	(mm)	215.90
DC	(m)	1,321.00
HWDP OD	(mm)	101.30
HWDP	(m)	1,032.00
BHA		289.98
DP OD	(mm)	101.30
String Rot Weight	(daN)	27,000
Pick-Up Weight	(daN)	29,000
Slack Off Weight	(daN)	26,000

BHA Desc.: INTERMEDIATE HOLE

Item	Jts	Length (m)
Polycrystalline Diamond Bit	1	0.25
Bent Housing	1	7.90
Float Sub	1	0.63
Non-Mag Drill Collar	1	9.48
MWD Tool	1	1.97
Non-Mag Drill Collar	1	9.52
Non-Mag Drill Collar	1	9.45
Cross Over	1	0.94
Drill Collar	3	28.65
Drilling Jar	1	9.84
Drill Collar	1	9.56
Cross Over	1	0.22
Heavy Weight Drill Pipe	22	201.57

Safety Drills

Last BOP Test (P)	3/2/2002
Last BOP Test (F)	3/2/2002
Last BOP Drill	3/2/2002

Survey Data

MD (m)	Incl.	Azimuth	TVD (m)	N/S (-) (m)	E/W (-) (m)	Section	DLS (°/30m)	BUR (°/30m)
690.88	0.600	257.000	690.88	-0.21	-0.58	-0.22	0.26	0.25
738.90	1.100	1.000	738.89	0.20	-0.82	-0.68	0.86	0.31
767.70	2.100	14.300	767.68	0.99	-0.68	-1.19	1.10	1.04
796.50	2.500	5.500	796.46	2.12	-0.49	-1.94	0.55	0.42
806.10	2.400	0.200	806.05	2.53	-0.47	-2.24	0.77	-0.31
815.60	2.000	354.700	815.54	2.90	-0.49	-2.53	1.43	-1.26
825.30	1.800	345.500	825.24	3.21	-0.54	-2.81	1.13	-0.62
834.80	1.600	356.800	834.73	3.49	-0.58	-3.05	1.23	-0.63
854.10	1.200	338.600	854.03	3.95	-0.67	-3.45	0.92	-0.62
863.70	0.900	355.700	863.63	4.12	-0.72	-3.61	1.35	-0.94
892.60	1.000	61.400	892.52	4.46	-0.51	-3.74	1.07	0.10
902.20	1.700	110.600	902.12	4.45	-0.30	-3.60	4.04	2.19
911.85	2.100	130.300	911.77	4.29	-0.04	-3.30	2.36	1.24
921.40	2.800	140.400	921.31	3.99	0.25	-2.90	2.58	2.20
931.11	2.800	133.700	931.01	3.65	0.57	-2.43	1.01	0.00
940.77	2.200	125.000	940.66	3.38	0.89	-2.01	2.20	-1.86
950.37	2.500	125.000	950.25	3.15	1.21	-1.63	0.94	0.94

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-69 Date: 3/3/2002 Report: 13 DFS: 9.00 DOL: 12.00

Event Name: ORIG DRILLING Start: 2/23/2002 End:

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR
960.04	2.400	112.000	959.91	2.96	1.57	-1.25	1.75	-0.31
969.70	2.500	107.000	969.56	2.82	1.96	-0.89	0.73	0.31
979.31	3.000	109.900	979.16	2.67	2.40	-0.50	1.62	1.56
988.90	3.200	111.600	988.74	2.49	2.89	-0.05	0.69	0.63
998.50	3.900	107.400	998.32	2.29	3.45	0.46	2.33	2.19
1,008.10	4.500	104.300	1,007.89	2.10	4.12	1.04	2.00	1.88
1,017.70	4.800	100.500	1,017.46	1.93	4.88	1.66	1.34	0.94
1,027.29	5.100	103.700	1,027.01	1.76	5.69	2.31	1.28	0.94
1,036.89	5.400	102.500	1,036.57	1.56	6.55	3.02	1.00	0.94
1,046.54	5.600	103.200	1,046.18	1.36	7.45	3.76	0.66	0.62

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 3/4/2002	Report: 14	DFS: 10.00	DOL: 13.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name:	AKITA 55	TMD:	1,321.00 (m)	TVD:	1,309.00 (m)	Progress:	318.00 (m)
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super:	JIM ELLIOTT 403-818-7074	Rot. Hours:	20.50	AV ROP:	15.51	Hole Size:	215.90 (mm)
Wellsite Eng:	STAN WEICH 403-231-0190	Last Casing:	244.500 (mm)	Shoe TMD:	559.00 (m)	Shoe TVD:	559.00 (m)
Daily Cost:	89,355	Cum Cost:	1,586,599	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: DRILLING SLIDING @ 1400 M,

DRILL, RIG SERVICE, SURVEYS,

24hr Forecast: DRILL AHEAD,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 07:15	7.25	02	H	PDRLIN1	DRILL 215.9 mm HOLE WITH SLIDES FROM 1003 M TO 1090 M,
07:15 - 07:30	0.25	07	A	PDRLIN1	RIG SERVICE, FUNCTION ANNULAR BOP CLOSE IN 12 SEC.,
07:30 - 09:00	1.50	10		PDRLIN1	ACCUMULATED SURVEY TIMES,
09:00 - 22:15	13.25	02	H	PDRLIN1	DRILL 215.9 mm HOLE WITH SLIDES FROM 1090 M TO 1321 M,
22:15 - 22:30	0.25	07	A	PDRLIN1	RIG SERVICE, FUNCTION LOWER PIPE RAMS, CLOSE 6 SEC.,
22:30 - 00:00	1.50	10		PDRLIN1	ACCUMULATED SURVEY TIMES,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
2,131.8	0	2,131.8	FT. SIMPSON	1,225.00	Bkgr Avg/Max (mg/L)	54/83
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/4/2002 | Report: 14 | DFS: 10.00 | DOL: 13.00
Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800		
Liner (mm)	152.4		
Stroke (mm)	215.9		
EFF	98.0		
Press (kPa)	9,300		
SPM	117		
Output (L/mi	1,354.71		

Velocities

Drill Pipe	(m/min)	47.5
Drill Collar	(m/min)	89.0
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump F-800	3,580 (kP	672.45 (L/min)
Pump	(kPa)	(L/min)
Pump	(kPa)	(L/min)

Mud Check

Type 1:	ENVIROVERT			
Time/Ldd:00 / IN		Ca+ (mg/L)	16	
Depth (m)	1,154.00	K+ (mg/L)		
Temp (°C)	32	Polymer (kg/m³)		
Density (kg/m³)	910	CaCl2 (%)		
ECD (kg/m³)	927	NaCl (%)		
Viscosity (s/l)	55	Sand (%)	0.002	
PV (mPa*s)	55.0	Tot. Solids		
YP (Pa)	1.4	% Oil	85.0	
GELS (Pa)	2.0/3.0/	% H2O	15.0	
API WL (mL)		Oil/H2O		
HTHP WL (mL)	30.0	HGSolid (kg/m³)		
API FC (mm)	2.0	LGSolid (kg/m³)		
MBT (kg/m³)		ES (mV)	1,037	
Lime (kg/m³)	22.1	Oil Ret (%)		
pH				
Pm (cm³)				
Pi/Mf (cm³ / cm³				
Comment1:				

Mud Products

Additive	# Units
LIME	5
CALCIUM CARB	2
FLOOR DRY	3
CALCIUM CHLO	10
CARBOTROL	10

Mud Cost

Daily	$1,714.55
Cumulative	$14,324.00

Bit Data

Bit No.	3	
Run	3	
Size (mm)	215.90	
Manu.	DOWDCO	
Type	TM266	
Serial No.	D-1266	
TFA (mm²)	667.3	
Depth In (m)	560.00	
Depth Out (m)	1,447.00	
Cum. Depth (m)	761.00	
Cum. Hours	43.25	
WOB (Min)(daN)		
WOB (Max)(daN)	4	
RPM (Min)	24	
RPM (Max)	23	
Cond (IODL)		
Cond (BGOR)	0/ I//	
Jets 1/2/3	11.9/11.9/11.9	
Jets 4/5/6	11.9/11.9/11.9	

Pipe Data

Min ID	(mm)	
DC OD	(mm)	215.90
DC	(m)	1,321.00
HWDP OD	(mm)	101.30
HWDP	(m)	1,032.00
BHA		289.98
DP OD	(mm)	101.30
String Rot Weight	(daN)	40,000
Pick-Up Weight	(daN)	44,000
Slack Off Weight	(daN)	38,000

BHA Desc.: INTERMEDIATE HOLE

Item	Jts	Length (m)
Polycrystalline Diamond Bit	1	0.25
Bent Housing	1	7.90
Float Sub	1	0.63
Non-Mag Drill Collar	1	9.48
MWD Tool	1	1.97
Non-Mag Drill Collar	1	9.52
Non-Mag Drill Collar	1	9.45
Cross Over	1	0.94
Drill Collar	3	28.65
Drilling Jar	1	9.84
Drill Collar	1	9.56
Cross Over	1	0.22
Heavy Weight Drill Pipe	22	201.57

Safety Drills

Last BOP Test (P)	3/2/2002
Last BOP Test (F)	3/4/2002
Last BOP Drill	3/2/2002

Survey Data

MD (m)	Incl.	Azimuth	TVD (m)	N/S (-) (m)	E/W (-) (m)	Section	DLS (°/30m)	BUR (°/30m)
1,056.18	6.000	105.800	1,055.77	1.11	8.39	4.55	1.49	1.24
1,065.90	6.900	105.200	1,065.43	0.82	9.44	5.45	2.79	2.78
1,075.55	7.700	106.400	1,075.00	0.49	10.62	6.46	2.53	2.49
1,085.21	8.500	106.000	1,084.56	0.11	11.93	7.60	2.49	2.48
1,094.87	9.500	108.200	1,094.11	-0.34	13.37	8.87	3.28	3.11
1,104.52	9.300	115.600	1,103.63	-0.93	14.83	10.25	3.81	-0.62
1,114.17	9.500	123.100	1,113.15	-1.70	16.20	11.73	3.86	0.62
1,123.72	9.800	127.700	1,122.56	-2.62	17.51	13.28	2.60	0.94
1,133.31	10.400	130.000	1,132.00	-3.68	18.82	14.93	2.26	1.88
1,142.96	10.900	131.900	1,141.49	-4.85	20.16	16.69	1.90	1.55
1,152.54	11.400	132.800	1,150.89	-6.10	21.53	18.52	1.66	1.57
1,162.13	11.900	137.100	1,160.28	-7.47	22.90	20.45	3.13	1.56
1,171.71	12.900	137.100	1,169.63	-8.97	24.30	22.51	3.13	3.13
1,181.33	13.500	137.100	1,179.00	-10.58	25.79	24.70	1.87	1.87
1,190.99	13.800	137.100	1,188.39	-12.25	27.35	26.98	0.93	0.93
1,200.64	13.900	140.500	1,197.76	-13.99	28.87	29.29	2.55	0.31
1,210.29	14.300	144.700	1,207.12	-15.86	30.29	31.63	3.41	1.24

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 Date: 3/4/2002 Report: 14 DFS: 10.00 DOL: 13.00
Event Name: ORIG DRILLING Start: 2/23/2002 End:

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR
1,219.96	14.600	148.900	1,216.48	-17.87	31.61	34.03	3.38	0.93
1,229.61	15.100	151.200	1,225.81	-20.02	32.85	36.46	2.40	1.55
1,239.23	16.100	151.000	1,235.07	-22.28	34.10	39.00	3.12	3.12
1,248.83	17.000	154.200	1,244.28	-24.71	35.35	41.67	4.00	2.81
1,258.41	16.900	158.000	1,253.44	-27.26	36.48	44.35	3.48	-0.31
1,268.07	17.100	160.000	1,262.68	-29.90	37.50	47.02	1.92	0.62
1,277.74	16.100	162.400	1,271.95	-32.51	38.39	49.59	3.76	-3.10
1,287.38	15.400	163.200	1,281.22	-35.01	39.16	52.00	2.28	-2.18
1,297.04	14.500	165.000	1,290.56	-37.41	39.85	54.28	3.14	-2.80
1,306.68	14.800	166.700	1,299.88	-39.77	40.44	56.47	1.63	0.93
1,316.34	15.200	159.300	1,309.22	-42.16	41.17	58.76	6.07	1.24
1,326.00	16.300	168.200	1,318.51	-44.67	41.90	61.15	8.23	3.42
1,335.63	16.500	164.700	1,327.75	-47.31	42.54	63.59	3.14	0.62
1,345.27	16.500	159.100	1,337.00	-49.91	43.38	66.12	4.95	0.00
1,354.91	15.800	155.600	1,346.26	-52.39	44.42	68.68	3.73	-2.18
1,364.55	16.200	150.400	1,355.52	-54.75	45.62	71.27	4.63	1.24
1,374.20	16.100	148.800	1,364.79	-57.06	46.98	73.91	1.42	-0.31
1,333.85	15.600	146.300	1,374.08	-59.29	48.39	76.52	2.63	-1.55

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 3/5/2002	Report: 15	DFS: 11.00	DOL: 14.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name: AKITA 55	TMD:	1,476.00 (m)	TVD:	1,467.00 (m)	Progress:	155.00 (m)	
	KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)	
Rig Super: JIM ELLIOTT 403-818-7074	Rot. Hours:	10.00	AV ROP:	15.50	Hole Size:	215.90 (mm)	
Wellsite Eng: STAN WEICH 403-231-0190	Last Casing:	244.500 (mm)	Shoe TMD:	559.00 (m)	Shoe TVD:	559.00 (m)	
Daily Cost: 66,016	Cum Cost:	1,652,615	AFE Est:	3,256,200	AFE No.:	0143002	

Current Status: DRILLING & SLIDING @ 1558 M,

INCIDENT REPORT TODAY

24hr Forecast: DRILL AHEAD,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 08:00	8.00	02	H P	DRLIN1	DRILL AND SLIDE FROM 1321 M TO 1447 M,
08:00 - 08:15	0.25	07	A P	DRLIN1	RIG SERVICE, FUNCTION REMOTE CHOKE,
08:15 - 09:00	0.75	05	K P	DRLIN1	CIRCULATE BOTTOM UP,
09:00 - 09:45	0.75	10	P	DRLIN1	ACCUMULATED SURVEY TIMES,
09:45 - 15:00	5.25	06	A P	DRLIN1	TRIP OUT OF HOLE WITH FLOW CHECKS AT 1446 M , 1350 M, 560 M, AT BHA,
15:00 - 16:30	1.50	06	A P	DRLIN1	CHANGE BIT, CHECK MWD TOOL, SET MUD MOTOR UP TO 1.83 DEGREES.,
16:30 - 18:00	1.50	06	A P	DRLIN1	TRIP INTO 590 M,
18:00 - 18:30	0.50	10	P	DRLIN1	SHALLOW TEST MWD TOOL, CHANGE STRIPPER RUBBER ON KELLY,
18:30 - 21:30	3.00	06	A P	DRLIN1	TRIP IN HOLE,FILL PIPE AT 900 M,
21:30 - 23:30	2.00	02	H P	DRLIN1	DRILL & SLIDE 215.9 MM HOLE FROM 1447 M TO 1476 M,
23:30 - 00:00	0.50	10	P	DRLIN1	ACUMULATED SURVEY TIMES,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
2,131.8	0	2,131.8	FT. SIMPSON	1,225.00	Bkgr Avg/Max (mg/L)	/80
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/5/2002 | Report: 15 | DFS: 11.00 | DOL: 14.00
Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800		
Liner (mm)	152.4		
Stroke (mm)	215.9		
EFF	98.0		
Press (kPa)	9,300		
SPM	117		
Output (L/mi	1,354.71		

Velocities

Drill Pipe	(m/min)	47.5
Drill Collar	(m/min)	89.0
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1:	ENVIROVERT			
Time/Ldd:30 / IN			Ca+ (mg/L)	
Depth (m)	1,446.00		K+ (mg/L)	
Temp (°C)	35		Polymer (kg/m³)	
Density (kg/m³)	920		CaCl2 (%)	22.00
ECD (kg/m³)	937		NaCl (%)	
Viscosity (s/l)	56		Sand (%)	0.005
PV (mPa*s)	20.0		Tot. Solids	
YP (Pa)	1.4		% Oil	85.0
GELS (Pa)	2.0/4.0/		% H2O	15.0
API WL (mL)			Oil/H2O	
HTHP WL (mL)	25.0		HGSolid (kg/m³)	
API FC (mm)	2.0		LGSolid (kg/m³)	
MBT (kg/m³)			ES (mV)	1,041
Lime (kg/m³)	22.1		Oil Rat (%)	
pH				
Pm (cm³)				
Pf/Mf (cm³ / cm³				
Comment1:				

Mud Products

Additive	# Units
CALCIUM CARB	7
CALCIUM CARB	25
CALCIUM CHLO	30
CARBOGEL	1

Mud Cost

Daily	$2,637.15
Cumulative	$16,962.00

Bit Data

Bit No.	4	3
Run	4	3
Size (mm)	215.90	215.90
Manu.	Hughes	DOWDCO
Type	CT-03	TM266
Serial No.	ROODL	D-1266
TFA (mm²)	290.3	667.3
Depth In (m)	1,447.00	560.00
Depth Out (m)	2,028.00	1,447.00
Cum. Depth (m)	29.00	886.00
Cum. Hours	2.00	51.25
WOB (Min)(daN)	2,000	2
WOB (Max)daN)	8,000	4
RPM (Min)		
RPM (Max)	35	
Cond (IODL)	6/5/BT/A	
Cond (BGOR)	5/ I/LT/TD	0/ I//
Jets 1/2/3	11.1/11.1/11.1	11.9/11.9/11.9
Jets 4/5/6		11.9/11.9/11.9

Pipe Data

Min ID	(mm)	
DC OD	(mm)	215.90
DC	(m)	2,028.00
HWDP OD	(mm)	101.30
HWDP	(m)	1,739.00
BHA		289 98
DP OD	(mm)	101.30
String Rot Weight	(daN)	43,000
Pick-Up Weight	(daN)	45,000
Slack Off Weight	(daN)	42,000

BHA Desc.: INTERMEDIATE HOLE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.25
Bent Housing	1	7.90
Float Sub	1	0.63
Non-Mag Drill Collar	1	9.48
MWD Tool	1	1.97
Non-Mag Drill Collar	1	9.52
Non-Mag Drill Collar	1	9.45
Cross Over	1	0.94
Drill Collar	3	28.65
Drilling Jar	1	9.84
Drill Collar	1	9.56
Cross Over	1	0.22
Heavy Weight Drill Pipe	22	201.57

Safety Drills

Last BOP Test (P)	3/2/2002
Last BOP Test (F)	3/5/2002
Last BOP Drill	3/5/2002

Survey Data

MD (m)	Incl.	Azimuth	TVD (m)	N/S (-) (m)	E/W (-) (m)	Section	DLS (°/30m)	BUR (°/30m)
1,393.39	15.000	144.000	1,383.28	-61.36	49.83	79.03	2.68	-1.89
1,403.15	15.100	141.900	1,392.70	-63.38	51.36	81.56	1.70	0.31
1,412.79	14.800	142.200	1,402.02	-65.34	52.89	84.05	0.96	-0.93
1,422.45	14.300	142.600	1,411.37	-67.26	54.37	86.47	1.58	-1.55
1,432.10	13.500	144.000	1,420.73	-69.12	55.75	88.78	2.70	-2.49
1,441.76	13.300	140.500	1,430.13	-70.89	57.12	91.02	2.59	-0.62
1,451.41	14.900	140.500	1,439.49	-72.70	58.62	93.37	4.97	4.97
1,461.07	15.600	141.000	1,448.81	-74.67	60.23	95.91	2.21	2.17
1,470.72	17.000	139.800	1,458.07	-76.76	61.95	98.62	4.48	4.35
1,480.33	17.600	141.800	1,467.25	-78.97	63.76	101.48	2.64	1.87
1,490.01	17.900	143.500	1,476.47	-81.32	65.55	104.42	1.86	0.93
1,499.66	18.400	143.500	1,485.64	-83.73	67.34	107.42	1.55	1.55
1,509.30	18.800	145.400	1,494.77	-86.24	69.12	110.49	2.26	1.24
1,518.90	18.800	141.100	1,503.86	-88.71	70.97	113.58	4.33	0.00
1,528.55	19.100	137.100	1,512.99	-91.08	73.02	116.71	4.14	0.93

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 3/6/2002	Report: 16	DFS: 12.00	DOL: 15.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name:	AKITA 55	TMD:	1,813.00 (m)	TVD:	1,783.00 (m)	Progress:	337.00 (m)
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super:	JIM ELLIOTT 403-818-7074	Rot. Hours:	19.00	AV ROP:	17.74	Hole Size:	215.90 (mm)
Wellsite Eng:	STAN WEICH 403-231-0190	Last Casing:	244.500 (mm)	Shoe TMD:	559.00 (m)	Shoe TVD:	559.00 (m)
Daily Cost:	99,986	Cum Cost:	1,752,602	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: DRILLING @ 1905 M,

INCIDENT REPORT TODAY

24hr Forecast: DRILL TO CASING POINT, WIPPER TRIP, LOG,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 01:45	1.75	02	H	P DRLIN1	DRILL & SLIDE 215.9 MM HOLE FROM 1447 M TO 1505 M,
01:45 - 02:00	0.25	07	A	P DRLIN1	RIG SERVICE, FUNCTION LOWER PIPE RAMS CLOSE 4 SEC.,
02:00 - 02:15	0.25	08	E	P DRLIN1	CHANGE LOWER KELLY GUARD,
02:15 - 09:30	7.25	02	H	P DRLIN1	DRILL & SLIDE 215.9 MM HOLE FROM 1505 M TO 1582 M,
09:30 - 12:00	2.50	10		P DRLIN1	ACCUMULATED SURVEY TIMES,
12:00 - 16:00	4.00	02	H	P DRLIN1	DRILL & SLIDE 215.9 MM HOLE FROM 1582 M TO 1697 M,
16:00 - 16:15	0.25	07	A	P DRLIN1	RIG SERVICE, FUNCTION ANNULAR BOP CLOSE 20 SEC.,
16:15 - 22:15	6.00	02	H	P DRLIN1	DRILL & SLIDE 215.9 MM HOLE FROM 1697 M TO 1813 M,
22:15 - 00:00	1.75	10		P DRLIN1	ACCUMULATED SURVEY TIMES,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT

EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)
2,131.8	0	2,131.8

Formation Data

Formation Name	Top (m)
FT. SIMPSON	1,225.00

Gas Readings

Conn Avg/Max	(mg/L)	
Bkgr Avg/Max	(mg/L)	67/115
Trip Avg/Max	(mg/L)	
H2S	(%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/6/2002 | Report: 16 | DFS: 12.00 | DOL: 15.00
Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800		
Liner (mm)	152.4		
Stroke (mm)	215.9		
EFF	98.0		
Press (kPa)	14,500		
SPM	118		
Output (L/mi	1,366.29		

Velocities

Drill Pipe	(m/min)	48.2
Drill Collar	(m/min)	90.3
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump F-800	3,970 (kP	660.85 (L/min)
Pump	(kPa)	(L/min)
Pump	(kPa)	(L/min)

Mud Check

Type 1: ENVIROVERT

Time/Ld	2:10 / IN		Ca+	(mg/L)	
Depth	(m)	1,640.00	K+	(mg/L)	
Temp	(°C)	37	Polymer	(kg/m³)	
Density	(kg/m³)	930	CaCl2	(%)	23.80
ECD	(kg/m³)	945	NaCl	(%)	
Viscosity	(s/l)	56	Sand	(%)	0.010
PV	(mPa*s)	18.0	Tot. Solids		
YP	(Pa)	2.8	% Oil		84.0
GELS	(Pa)	1.5/3.0/	% H2O		10.0
API WL	(mL)		Oil/H2O		
HTHP WL	(mL)	15.0	HGSolid	(kg/m³)	
API FC	(mm)	2.0	LGSolid	(kg/m³)	
MBT	(kg/m³)		ES	(mV)	1,342
Lime	(kg/m³)	22.1	Oil Ret	(%)	
pH					
Pm	(cm³)				
Pf/Mf	(cm³ / cm³				

Comment1:

Mud Products

Additive	# Units
CALCIUM CARB	5
FLOOR DRY	8
CALCIUM CHLO	20
CARBOGEL	10
CARBOTROL	10
CARBOMUL (DF	1

Mud Cost

Daily	$7,372.95
Cumulative	$24,335.00

Bit Data

Bit No.	4	
Run	4	
Size (mm)	215.90	
Manu.	Hughes	
Type	GT-03	
Serial No.	ROODL	
TFA (mm²)	290.3	
Depth In (m)	1,447.00	
Depth Out (m)	2,028.00	
Cum. Depth (m)	366.00	
Cum. Hours	21.00	
WOB (Min)(daN)	2,000	
WOB (Max)(daN)	8,000	
RPM (Min)		
RPM (Max)	35	
Cond (IODL)	6/5/BT/A	
Cond (BGOR)	5/ I/LT/TD	
Jets 1/2/3	11.1/11.1/11.1	
Jets 4/5/6		

Pipe Data

Min ID	(mm)	
DC OD	(mm)	215.90
DC	(m)	2,028.00
HWDP OD	(mm)	101.30
HWDP	(m)	1,739.00
BHA		289.98
DP OD	(mm)	101.30
String Rot Weight	(daN)	44,000
Pick-Up Weight	(daN)	48,000
Slack Off Weight	(daN)	42,000

BHA Desc.: INTERMEDIATE HOLE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.25
Bent Housing	1	7.90
Float Sub	1	0.63
Non-Mag Drill Collar	1	9.48
MWD Tool	1	1.97
Non-Mag Drill Collar	1	9.52
Non-Mag Drill Collar	1	9.45
Cross Over	1	0.94
Drill Collar	3	28.65
Drilling Jar	1	9.84
Drill Collar	1	9.56
Cross Over	1	0.22
Heavy Weight Drill Pipe	22	201.57

Safety Drills

Last BOP Test (P)	3/2/2002
Last BOP Test (F)	3/6/2002
Last BOP Drill	3/5/2002

Survey Data

MD (m)	Incl.	Azimuth	TVD (m)	N/S (-) (m)	E/W (-) (m)	Section	DLS (°/30m)	BUR (°/30m)
1,538.19	19.000	136.300	1,522.10	-93.37	75.18	119.85	0.87	-0.31
1,547.44	19.000	135.000	1,530.85	-95.52	77.29	122.85	1.37	0.00
1,557.42	19.000	134.100	1,540.28	-97.80	79.60	126.09	0.88	0.00
1,567.08	18.800	135.000	1,549.42	-100.00	81.83	129.20	1.10	-0.62
1,576.75	18.600	138.700	1,558.58	-102.26	83.95	132.30	3.73	-0.62
1,586.00	18.400	139.500	1,567.35	-104.48	85.87	135.23	1.05	-0.65
1,596.04	18.300	140.900	1,576.88	-106.90	87.90	138.39	1.35	-0.30
1,605.70	17.700	143.100	1,586.07	-109.25	89.74	141.37	2.82	-1.86
1,615.37	17.100	144.400	1,595.30	-111.59	91.45	144.26	2.22	-1.86
1,625.01	17.500	143.500	1,604.50	-113.90	93.13	147.12	1.50	1.24
1,634.66	17.300	141.700	1,613.71	-116.20	94.89	150.00	1.79	-0.62
1,644.33	17.300	138.500	1,622.94	-118.40	96.73	152.87	2.95	0.00
1,653.97	17.500	138.000	1,632.14	-120.55	98.65	155.76	0.78	0.62
1,663.64	18.100	140.000	1,641.35	-122.78	100.59	158.71	2.66	1.86
1,673.29	19.000	139.100	1,650.50	-125.12	102.58	161.78	2.94	2.80
1,682.90	19.700	137.100	1,659.56	-127.49	104.71	164.96	3.01	2.19
1,692.51	19.700	136.200	1,668.61	-129.84	106.93	168.20	0.95	0.00

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 Date: 3/6/2002 Report: 16 DFS: 12.00 DOL: 15.00
Event Name: ORIG DRILLING Start: 2/23/2002 End:

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR
1,702.11	19.200	137.300	1,677.66	-132.17	109.12	171.39	1.94	-1.56
1,711.70	18.400	138.500	1,686.74	-134.46	111.19	174.48	2.78	-2.50
1,721.28	17.700	140.300	1,695.85	-136.72	113.12	177.45	2.80	-2.19
1,730.84	17.300	141.700	1,704.97	-138.95	114.93	180.32	1.82	-1.26
1,740.44	17.300	139.700	1,714.13	-141.16	116.74	183.17	1.86	0.00
1,750.02	18.100	137.000	1,723.26	-143.33	118.68	186.08	3.59	2.51
1,759.62	17.900	139.200	1,732.39	-145.54	120.66	189.05	2.21	-0.63
1,769.24	17.700	139.700	1,741.55	-147.78	122.57	191.99	0.78	-0.62
1,778.85	18.000	140.800	1,750.70	-150.04	124.45	194.93	1.41	0.94
1,788.51	18.100	142.100	1,759.88	-152.38	126.32	197.93	1.29	0.31
1,798.06	18.000	144.200	1,768.96	-154.75	128.09	200.88	2.07	-0.31
1,807.66	16.900	143.100	1,778.12	-157.07	129.80	203.75	3.59	-3.44
1,817.30	16.200	143.100	1,787.36	-159.26	131.45	206.49	2.18	-2.18
1,826.89	15.100	141.200	1,796.60	-161.31	133.03	209.08	3.80	-3.44
1,836.47	14.500	138.700	1,805.86	-163.18	134.61	211.53	2.74	-1.88
1,846.07	13.500	137.800	1,815.17	-164.91	136.15	213.85	3.20	-3.13
1,855.63	12.800	135.200	1,824.48	-166.49	137.65	216.02	2.88	-2.20
1,865.22	12.100	134.300	1,833.85	-167.95	139.12	218.08	2.27	-2.19
1,874.80	12.600	134.100	1,843.21	-169.38	140.59	220.12	1.57	1.57

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 3/7/2002	Report: 17	DFS: 13.00	DOL: 16.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name:	AKITA 55	TMD:	2,028.00 (m)	TVD:	1,994.00 (m)	Progress:	215.00 (m)
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super:	JIM ELLIOTT 403-818-7074ERGER	Rot. Hours:	13.50	AV ROP:	15.93	Hole Size:	215.90 (mm)
Wellsite Eng:	STAN WEICH 403-231-0190	Last Casing:	244.500 (mm)	Shoe TMD:	559.00 (m)	Shoe TVD:	559.00 (m)
Daily Cost:	41,600	Cum Cost:	1,794,202	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: WAITING ON SCHLUMBERGER DEPTH 2028 M,

DRILL, CIRCULATE SAMPLE, WIPPER TRIP, CIRCULATE,

24hr Forecast: CIRCULATE, WIPPER TRIP, LOG,

Operations Summary

From - To	Hours	Code	Sub Code		Phase	Description of Operations
00:00 - 07:45	7.75	02	H	P	DRLIN1	DRILL & SLIDE 215.9 mm HOLE FROM 1813 M TO 1928 M,
07:45 - 08:00	0.25	07	A	P	DRLIN1	RIG SERVICE, FUNCTION UPPER PIPE RAMS CLOSE 6 SEC.,
08:00 - 10:00	2.00	02	H	P	DRLIN1	DRILL & SLIDE 215.9 mm HOLE FROM 1928 M TO 1982 M,
10:00 - 12:00	2.00	10		P	DRLIN1	ACCUMULATED SURVEY TIMES,
12:00 - 15:45	3.75	02	H	P	DRLIN1	DRILL & SLIDE 215.9 mm HOLE FROM 1982 M TO 2028 M,
15:45 - 16:30	0.75	10		P	DRLIN1	ACCUMULATED SURVEY TIMES,
16:30 - 17:15	0.75	05	I	P	DRLIN1	CIRCULATE UP SAMPLE,
17:15 - 17:30	0.25	07	A	P	DRLIN1	RIG SERVICE, FUNCTION LOWER PIPE RAMS CLOSE 6 SEC.,
17:30 - 21:00	3.50	06	H	P	DRLIN1	WIPPER TRIP TO 1400 M HOLE IN GOOD SHAPE,
21:00 - 21:15	0.25	21	B	P	DRLIN1	BOP DRILL,
21:15 - 00:00	2.75	05	D	P	DRLIN1	CIRCULATE WAITING SCHLUMBERGER,

DAILY OPERATIONAL COMMENTS(24hr Summary):
SCHLUMBERGER ENGINEER IN ROAD ACCIDENT JUST SOUTH OF NWT BORDER, MEDVAC OUT BY HELICOPTER,

LOT/FIT

EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)
2,131.8	0	2,131.8

Formation Data

Formation Name	Top (m)
SLAVE POINT	1,225.00

Gas Readings

Conn Avg/Max	(mg/L)	
Bkgr Avg/Max	(mg/L)	126/838
Trip Avg/Max	(mg/L)	
H2S	(%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/7/2002 | Report: 17 | DFS: 13.00 | DOL: 16.00

Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800		
Liner (mm)	152.4		
Stroke (mm)	215.9		
EFF	98.0		
Press (kPa)	14,500		
SPM	118		
Output (L/mi	1,366.29		

Velocities

Drill Pipe	(m/min)	48.2
Drill Collar	(m/min)	90.3
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump F-800	4,150 (kP	660.85 (L/min)
Pump	(kPa)	(L/min)
Pump	(kPa)	(L/min)

Mud Check

Type 1: ENVIROVERT

Time/Ld	5:00 / IN		Ca+ (mg/L)		
Depth	(m)	2,015.00	K+ (mg/L)		
Temp	(°C)	49	Polymer (kg/m³)		
Density	(kg/m³)	920	CaCl2 (%)	27.30	
ECD	(kg/m³)	933	NaCl (%)		
Viscosity	(s/l)	52	Sand (%)	0.010	
PV	(mPa*s)	16.0	Tot. Solids	6.000	
YP	(Pa)	1.5	% Oil	84.0	
GELS	(Pa)	1.5/2.5/	% H2O	10.0	
API WL	(mL)		Oil/H2O		
HTHP WL	(mL)	15.0	HGSolid (kg/m³)		
API FC	(mm)		LGSolid (kg/m³)		
MBT	(kg/m³)		ES (mV)	1,255	
Lime	(kg/m³)	16.2	Oil Ret (%)		
pH					
Pm	(cm³)				
Pf/Mf	(cm³ / cm³				

Comment1:

Mud Products

Additive	# Units
CALCIUM CARB	50
CARBOGEL	2

Mud Cost

Daily	$1,126.80
Cumulative	$25,461.00

Bit Data

Bit No.	4	
Run	4	
Size (mm)	215.90	
Manu.	Hughes	
Type	GT-03	
Serial No.	RQODL	
TFA (mm²)	290.3	
Depth In (m)	1,447.00	
Depth Out (m)	2,028.00	
Cum. Depth (m)	581.00	
Cum. Hours	34.50	
WOB (Min)(daN)	2,000	
WOB (Max)(daN)	8,000	
RPM (Min)		
RPM (Max)	35	
Cond (IODL)	6/5/BT/A	
Cond (BGOR)	5/ I/LT/TD	
Jets 1/2/3	11.1/11.1/11.1	
Jets 4/5/6		

Pipe Data

Min ID	(mm)	
DC OD	(mm)	215.90
DC	(m)	2,028.00
HWDP OD	(mm)	101.30
HWDP	(m)	1,739.00
BHA		289.98
DP OD	(mm)	101.30
String Rot Weight	(daN)	48,000
Pick-Up Weight	(daN)	54,000
Slack Off Weight	(daN)	44,000

BHA Desc.: INTERMEDIATE HOLE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.25
Bent Housing	1	7.90
Float Sub	1	0.63
Non-Mag Drill Collar	1	9.48
MWD Tool	1	1.97
Non-Mag Drill Collar	1	9.52
Non-Mag Drill Collar	1	9.45
Cross Over	1	0.94
Drill Collar	3	28.65
Drilling Jar	1	9.84
Drill Collar	1	9.56
Cross Over	1	0.22
Heavy Weight Drill Pipe	22	201.57

Safety Drills

Last BOP Test (P)	3/2/2002
Last BOP Test (F)	3/7/2002
Last BOP Drill	3/7/2002

Survey Data

MD (m)	Incl.	Azimuth	TVD (m)	N/S (-) (m)	E/W (-) (m)	Section	DLS (°/30m)	BUR (°/30m)
1,884.42	12.700	137.000	1,852.59	-170.88	142.06	222.22	2.00	0.31
1,894.00	12.600	136.800	1,861.94	-172.41	143.49	224.31	0.34	-0.31
1,904.62	13.100	136.400	1,872.29	-174.13	145.12	226.67	1.43	1.41
1,913.25	12.700	135.100	1,880.71	-175.51	146.46	228.59	1.72	-1.39
1,922.80	12.500	133.900	1,890.03	-176.97	147.95	230.66	1.03	-0.63
1,932.42	12.100	133.200	1,899.42	-178.38	149.43	232.70	1.33	-1.25
1,941.99	11.900	133.500	1,908.79	-179.75	150.88	234.68	0.66	-0.63
1,951.57	11.000	135.200	1,918.17	-181.07	152.24	236.57	3.01	-2.82
1,961.15	11.000	134.400	1,927.58	-182.36	153.54	238.39	0.48	0.00
1,980.34	11.600	130.900	1,946.40	-184.91	156.30	242.12	1.42	0.94
1,999.50	10.100	132.000	1,965.21	-187.29	159.01	245.68	2.37	-2.35
2,013.00	9.200	130.800	1,978.52	-188.79	160.70	247.92	2.05	-2.00

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-(			Date: 3/8/2002	Report: 18	DFS: 14.00	DOL: 17.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name: AKITA 55	TMD:	2,028.00 (m)	TVD:	1,994.00 (m)	Progress:		
	KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)	
Rig Super: JIM ELLIOTT 403-818-7074	Rot. Hours:		AV ROP:		Hole Size:	215.90 (mm)	
Wellsite Eng: STAN WEICH 403-231-0190	Last Casing:	244.500 (mm)	Shoe TMD:	559.00 (m)	Shoe TVD:	559.00 (m)	
Daily Cost: 102,498	Cum Cost:	1,896,700	AFE Est:	3,256,200	AFE No.:	0143002	

Current Status: RUNNING 177.80 MM CASING,

CIRCULATE, WIPPER TRIPS, TRIP OUT LAY DOWN BHA, LOG,

24hr Forecast: RUN CASING, CEMENT, SET SEAL ASSEMBLE, MAKE UP BHA,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 03:00	3.00	05	K	PDRLIN1	CIRCULATE CONDITION MUD,
03:00 - 04:30	1.50	06	H	PDRLIN1	5 STAND WIPPER TRIP, HOLE IN GOOD SHAPE,
04:30 - 08:00	3.50	05	K	PDRLIN1	CIRCULATE CONDITION HOLE,
08:00 - 13:15	5.25	06	C	PDRLIN1	TRIPPING OUT OF HOLE W/ FLOW CHECKS,
13:15 - 14:15	1.00	09		PDRLIN1	SLIP & CUT DRILLING LINE,
14:15 - 18:30	4.25	06	C	PDRLIN1	TRIP OUT OF HOLE LAY DOWN DC, MUD MOTOR, MONELS, MWD TOOLS,
18:30 - 18:45	0.25	07	A	PDRLIN1	RIG SERVICE, FUNCTION BLIND RAMS,
18:45 - 00:00	5.25	39	D	PDRLIN1	RIG UP SCHLUMBERGER AND LOG,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
2,131.8	0	2,131.8	SLAVE POINT	2,021.00	Bkgr Avg/Max (mg/L)	/42
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/8/2002 | Report: 18 | DFS: 14.00 | DOL: 17.00
Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800		
Liner (mm)	152.4		
Stroke (mm)	215.9		
EFF	98.0		
Press (kPa)	14,500		
SPM	118		
Output (L/mi	1,366.29		

Velocities

Drill Pipe	(m/min)	48.2
Drill Collar	(m/min)	90.3
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump F-800	4,150 (kP	660.85 (L/min)
Pump	(kPa)	(L/min)
Pump	(kPa)	(L/min)

Mud Check

Type 1: ENVIROVERT

Time/Loc	08:40 /		Ca+ (mg/L)	
Depth	(m)	2,028.00	K+ (mg/L)	
Temp	(°C)	49	Polymer (kg/m³)	
Density	(kg/m³)	920	CaCl2 (%)	22.90
ECD	(kg/m³)	938	NaCl (%)	
Viscosity	(s/l)	67	Sand (%)	0.002
PV	(mPa*s)	23.0	Tot. Solids	6.000
YP	(Pa)	2.9	% Oil	84.0
GELS	(Pa)	2.5/4.5/	% H2O	10.0
API WL	(mL)		Oil/H2O	
HTHP WL	(mL)	15.0	HGSolid (kg/m³)	
API FC	(mm)		LGSolid (kg/m³)	
MBT	(kg/m³)		ES (mV)	1,084
Lime	(kg/m³)	16.2	Oil Ret (%)	
pH				
Pm	(cm³)			
Pf/Mf	(cm³ / cm³			

Comment1:

Mud Products

Additive	# Units
CALCIUM CARB	25
FLOOR DRY	1
CARBOGEL	1

Mud Cost

Daily	$576.25
Cumulative	$26,038.00

Bit Data

Bit No.	4	
Run	4	
Size (mm)	215.90	
Manu.	Hughes	
Type	GT-03	
Serial No.	RJ0ODL	
TFA (mm²)	290.3	
Depth In (m)	1,447.00	
Depth Out (m)	2,028.00	
Cum. Depth (m)	581.00	
Cum. Hours	34.50	
WOB (Min)(daN)	2,000	
WOB (Max)(daN)	8,000	
RPM (Min)		
RPM (Max)	35	
Cond (IODL)	6/5/BT/A	
Cond (BGOR)	5/ I/LT/TD	
Jets 1/2/3	11.1/11.1/11.1	
Jets 4/5/6		

Pipe Data

Min ID	(mm)	
DC OD	(mm)	215.90
DC	(m)	2,028.00
HWDP OD	(mm)	101.30
HWDP	(m)	1,739.00
BHA		289.98
DP OD	(mm)	101.30
String Rot Weight	(daN)	48,000
Pick-Up Weight	(daN)	54,000
Slack Off Weight	(daN)	44,000

BHA Desc.: INTERMEDIATE HOLE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.25
Bent Housing	1	7.90
Float Sub	1	0.63
Non-Mag Drill Collar	1	9.48
MWD Tool	1	1.97
Non-Mag Drill Collar	1	9.52
Non-Mag Drill Collar	1	9.45
Cross Over	1	0.94
Drill Collar	3	28.65
Drilling Jar	1	9.84
Drill Collar	1	9.56
Cross Over	1	0.22
Heavy Weight Drill Pipe	22	201.57

Safety Drills

Last BOP Test (P)	3/2/2002
Last BOP Test (F)	3/8/2002
Last BOP Drill	3/7/2002

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 3/9/2002	Report: 19	DFS: 15.00	DOL: 18.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name:	AKITA 55	TMD:	2,028.00 (m)	TVD:	1,994.00 (m)	Progress:	
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super:	JIM ELLIOTT 403-818-7074	Rot. Hours:		AV ROP:		Hole Size:	215.90 (mm)
Wellsite Eng:	STAN WEICH 403-231-0190	Last Casing:	244.500 (mm)	Shoe TMD:	559.00 (m)	Shoe TVD:	559.00 (m)
Daily Cost:	299,136	Cum Cost:	2,195,836	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: INSTALLING PACK OFF SEAL ASSEBLY IN SPEED HEAD,

LOG, RUN CASING, CIRCULATE, CEMENT CASING, CLEAN MUD TANKS,

24hr Forecast: INSTALL SEAL ASSEMBLE TEST, TRIP IN HOLE, CONDIION MUD DRILL

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 02:00	2.00	39	D	PDRLIN1	LOGGING WITH SCHLUMBERGER,
02:00 - 02:45	0.75	14	B	PDRLIN1	PULL WEAR BUSHING,
02:45 - 04:45	2.00	12	A	PDRLIN1	HELD SAFETY MEETING W/ RIG CREW , POWER TONG & LAYDOWN TRUCK, RIG TO RUN CASING
04:45 - 17:00	12.25	12	A	PDRLIN1	RUN 145 JTS, OF 177.8 mm 38.7 kg/m L-80 LT&C CASING SHOE AT 2024 M,
17:00 - 18:45	1.75	12	C	PDRLIN1	CIRCULATE CONDITION HOLE FOR CEMENTING CASING ,
18:45 - 21:00	2.25	12	C	PDRLIN1	CEMENT CASING W/ PREFLUSH 6 m3 DIESEL, PREFLUSH 3 m3 NOWFLUSH 6C, SCAVENGER 3 m3 1:1:2 .05% CD-31,FILL CEMENT 1:1:2 G .05% CD-31, 18.67 TONNES SLURRY VOLUME 17.47 m3 DENSITY 1682 kg/m3.,30% EXCESS, TAIL CEMENT 0:1:0 G, .20% R-6N, .80% NFL-2, 1%CaCL2, 7 TONNES CMT SLURRY VOLUME 5.28 m3, DENSITY 19001 kg/m3, 30% EXCESS,DISPLACE W/ WATER 40.06 m3, BUMP PLUG HELD 21000 KPA, 5 MINS OK,
21:00 - 00:00	3.00	13		PDRLIN1	TRANSFER INVERT MUD TO TANK FARM, CLEAN MUD TANKS,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
2,131.8	5,110	1,200.0	SLAVE POINT	2,021.00	Bkgr Avg/Max (mg/L)	
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/9/2002 | Report: 19 | DFS: 15.00 | DOL: 18.00
Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump			
Liner			
Stroke			
EFF			
Press			
SPM			
Output			

Velocities

Drill Pipe (m/min)	
Drill Collar (m/min)	
Riser (m/min)	
Lag Time (min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1: ENVIROVERT

Time/Loc		Ca+ (mg/L)	
Depth (m)		K+ (mg/L)	
Temp (°C)		Polymer (kg/m³)	
Density (kg/m³)		CaCl2 (%)	
ECD (kg/m³)		NaCl (%)	
Viscosity (s/l)		Sand (%)	
PV (mPa*s)		Tot. Solids	
YP (Pa)		% Oil	
GELS (Pa)		% H2O	
API WL (mL)		Oil/H2O	
HTHP WL (mL)		HGSolid (kg/m³)	
API FC (mm)		LGSolid (kg/m³)	
MBT (kg/m³)		ES (mV)	
Lime (kg/m³)		Oil Ret (%)	
pH			
Pm (cm³)			
Pf/Mf (cm³ / cm³)			

Comment1:

Mud Products

Additive	# Units

Mud Cost

Daily	$0.00
Cumulative	$26,038.00

Bit Data

Bit No.		
Run		
Size		
Manu.		
Type		
Serial No.		
TFA		
Depth In		
Depth Out		
Cum. Depth		
Cum. Hours		
WOB (Min)		
WOB (Max)		
RPM (Min)		
RPM (Max)		
Cond (IODL)		
Cond (BGOR)		
Jets 1/2/3		
Jets 4/5/6		

Pipe Data

Min ID	
DC OD	
DC	
HWDP OD	
HWDP	
BHA	
DP OD	
String Rot Weight	
Pick-Up Weight	
Slack Off Weight	

BHA Desc.:

Item	Jts	Length

Safety Drills

Last BOP Test (P)	3/2/2002
Last BOP Test (F)	3/9/2002
Last BOP Drill	3/7/2002

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Data: 3/10/2002	Report: 20	DFS: 16.00	DOL: 19.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name: AKITA 55	TMD:	2,028.00 (m)	TVD:	1,994.00 (m)	Progress:		
	KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)	
Rig Super: JIM ELLIOTT 403-818-7074	Rot. Hours:		AV ROP:		Hole Size:	155.60 (mm)	
Wellsite Eng: STAN WEICH 403-231-0190	Last Casing:	244.500 (mm)	Shoe TMD:	559.00 (m)	Shoe TVD:	559.00 (m)	
Daily Cost: 80,786	Cum Cost:	2,276,623	AFE Est:	3,256,200	AFE No.:	0143002	

Current Status: DRILLING OUT CEMENT AT2012 M,

CLEAN MUD TANKS, REPAIR BOPS, TRIP IN HOLE,

24hr Forecast: DRILL OUT, FIT, DRILL TO CASING POINT,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 05:00	5.00	13	P	DRLPRO	TRANSFER INVERT TO TANK FARM, CLEAN MUD TANKS .
05:00 - 08:00	3.00		P	DRLPRO	LAY DOWN LANDING JT, CLEAN BOP STACK, SET SEAL ASSEMBLY,
08:00 - 09:30	1.50	14	B	P	DRLPRO ENERGIZE SEAL ASSEMBLY TEST TO 21000 KPA,
09:30 - 09:45	0.25	07	A	P	DRLPRO RIG SERVICE, FUNCTION HCR VALVE,
09:45 - 17:30	7.75	08	D	P	DRLPRO WAIT ON AND CHANGE OUT BLIND RAM RUBBERS, TEST TO 20000 KPA, PICK UP DC STAND IN DERRICK,
17:30 - 18:15	0.75	14	B	P	DRLPRO SET WEAR BUSHING,
18:15 - 18:30	0.25	21	A	P	DRLPRO HELD SAFEY MEETING ON H2S, DRILLING PRODUCTION HOLE,
18:30 - 21:30	3.00	06	A	P	DRLPRO TRIP IN FILLING DRILL PIPE, 900 M,
21:30 - 21:45	0.25	21	A	P	DRLPRO HELD SAFETY MEETING ON H2S DRILLING PRODUCTION HOLE,
21:45 - 22:00	0.25	07	A	P	DRLPRO RIG SERVICE ,
22:00 - 00:00	2.00	06	A	P	DRLPRO TRIP IN PICK UP PIPE TAG CEMENT AT 2006 M,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
2,131.8	0	2,131.8	SLAVE POINT	2,021.00	Bkgr Avg/Max (mg/L)	
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/10/2002 | Report: 20 | DFS: 16.00 | DOL: 19.00
Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800		
Liner (mm)	152.4		
Stroke (mm)	215.9		
EFF	98.0		
Press (kPa)	10,600		
SPM	114		
Output (L/mi	1,319.97		

Velocities

Drill Pipe	(m/min)	119.7
Drill Collar	(m/min)	
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1:	ENVIROVERT				
Time/Loc			Ca+	(mg/L)	
Depth	(m)		K+	(mg/L)	
Temp	(°C)		Polymer	(kg/m³)	
Density	(kg/m³)		CaCl2	(%)	
ECD	(kg/m³)		NaCl	(%)	
Viscosity	(s/l)		Sand	(%)	
PV	(mPa*s)		Tot. Solids		
YP	(Pa)		% Oil		
GELS	(Pa)		% H2O		
API WL	(mL)		Oil/H2O		
HTHP WL	(mL)		HGSolid	(kg/m³)	
API FC	(mm)		LGSolid	(kg/m³)	
MBT	(kg/m³)		ES	(mV)	
Lime	(kg/m³)		Oil Ret	(%)	
pH					
Pm	(cm³)				
Pf/Mf	(cm³ / cm³				

Comment1:

Mud Products

Additive	# Units
ENVIROVERT	51
FLOOR DRY	2
DIESEL	164

Mud Cost

Daily	$29,568.20
Cumulative	$55,606.00

Bit Data

Bit No.	5	
Run	5	
Size (mm)	155.60	
Manu.	Reed	
Type	HP12	
Serial No.	ED7426	
TFA (mm²)	595.7	
Depth In (m)	2,028.00	
Depth Out (m)	2,035.00	
Cum. Depth (m)		
Cum. Hours		
WOB (Min)(daN)		
WOB (Max)(daN)		
RPM (Min)		
RPM (Max)		
Cond (IODL)	8/8/WT/A	
Cond (BGOR)	2/ I/WT/PR	
Jets 1/2/3	15.9/15.9/15.9	
Jets 4/5/6		

Pipe Data

Min ID	(mm)	57.000
DC OD	(mm)	
DC	(m)	
HWDP OD	(mm)	
HWDP	(m)	
BHA		239.54
DP OD	(mm)	
String Rot Weight	(daN)	40,000
Pick-Up Weight	(daN)	42,000
Slack Off Weight	(daN)	39,000

BHA Desc.: PRODUCTION HOLE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.20
Bit Sub	1	1.06
Heavy Weight Drill Pipe	26	238.28

Safety Drills

Last BOP Test (P)	3/2/2002
Last BOP Test (F)	3/10/2002
Last BOP Drill	3/7/2002

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 3/11/2002	Report: 21	DFS: 17.00	DOL: 20.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name:	AKITA 55	TMD:	2,036.00 (m)	TVD:	2,002.00 (m)	Progress:	8.00 (m)
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super:	JIM ELLIOTT 403-818-7074	Rot. Hours:	2.75	AV ROP:	2.91	Hole Size:	155.60 (mm)
Wellsite Eng:	STAN WEICH 403-231-0190	Last Casing:	177.800 (mm)	Shoe TMD:	2,024.00 (m)	Shoe TVD:	1,990.00 (m)
Daily Cost:	60,858	Cum Cost:	2,337,481	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: BUILDING MUD VOLUME, AT 2047 M LOSSES 2m3 PER HOUR,

TRIP IN HOLE, CONDITION MUD, DRILL OUT SHOE TRACK, FIT, DRILL , TRIP,

24hr Forecast: CURR LOSSES, DRILL,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 01:00	1.00	06	F	P DRLPRO	TRIP IN HOLE FILL DP,
01:00 - 05:15	4.25	05	B	P DRLPRO	CIRCULATE CONDITION MUD,
05:15 - 08:00	2.75	02	C	P DRLPRO	DRILL OUT CEMENT, FLOAT COLLAR, CEMENT SHOE, CLEAN TO BOTTOM 2028 M,
08:00 - 08:30	0.50	02	H	P DRLPRO	DRILL 155.6 mm HOLE FROM 2028 M TO 2031 M,
08:30 - 09:15	0.75	05	B	P DRLPRO	CIRCULATE BOTTOMS UP,
09:15 - 10:00	0.75	15	C	P DRLPRO	FORMATION INTERGERTY TEST HELD 5500 KPA 10 MIN S MUD WT 1010 kg/m3, EQUIVANT MUD WT 1290 kg/m3 ,
10:00 - 11:45	1.75	02	H	P DRLPRO	DRILL 155.6 mm HOLE FROM 2031 M TO 2035 M,
11:45 - 12:00	0.25	07	A	P DRLPRO	RIG SERVICE, FUNCTION UPPER PIPE RAMS CLOSE 6 SEC.,
12:00 - 12:30	0.50	05	K	P DRLPRO	CIRCULATE BOTTOMS UP,
12:30 - 13:30	1.00	06	A	P DRLPRO	TRIPPING OUT OF HOLE W/ FLOW CHECKS,
13:30 - 13:45	0.25	21	B	P DRLPRO	BOP DRILL, FIRE DRILL,
13:45 - 17:15	3.50	06	A	P DRLPRO	TRIP OUT OF HOLE W/ FLOW CHECKS,
17:15 - 17:30	0.25	07	A	P DRLPRO	RIG SERVICE, FUNCTION BLIND RAMS,
17:30 - 18:15	0.75	06	A	P DRLPRO	MAKE UP BIT TRIP INTO 300 M,
18:15 - 19:15	1.00	09		P DRLPRO	SLIP & CUT DRILLING LINE,
19:15 - 23:30	4.25	06	A	P DRLPRO	TRIP IN HOLE FILLING DP AT 900 M 1700M, BREAK CIRCULATION,
23:30 - 00:00	0.50	02	H	P DRLPRO	DRILL 155.6 mm HOLE FROM 2035 M TO 2036 M,

DAILY OPERATIONAL COMMENTS(24hr Summary):
LOST CIRCULATION 33 m3 PER. MIN. MIX & PUMP LCM PILL, AT 2047 M, DRILLING BREAK 1/4 METER, BUILDING VOLUME,LOST 18 m3 FIRST HOUR, AT 06: 00 HRS LOSSES 2m3 PER HOUR

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
1,291.7	1	1,291.7	SLAVE POINT	2,021.00	Bkgr Avg/Max (mg/L)	/53
					Trip Avg/Max (mg/L)	/100
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/11/2002 | Report: 21 | DFS: 17.00 | DOL: 20.00
Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800		
Liner (mm)	152.4		
Stroke (mm)	215.9		
EFF	98.0		
Press (kPa)	6,220		
SPM	90		
Output (L/mi	1,042.08		

Velocities

Drill Pipe	(m/min)	119.7
Drill Collar	(m/min)	
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump F-800	2,880 (kP	672.45 (L/min)
Pump	(kPa)	(L/min)
Pump	(kPa)	(L/min)

Mud Check

Type 1: LOW DAMAGE

Time/Date	06:50 / IN		Ca+	(mg/L)	120
Depth	(m)	2,028.00	K+	(mg/L)	
Temp	(°C)	38	Polymer	(kg/m³)	
Density	(kg/m³)	1,010	CaCl2	(%)	
ECD	(kg/m³)	1,085	NaCl	(%)	
Viscosity	(s/l)	36	Sand	(%)	
PV	(mPa*s)	7.0	Tot. Solids		0.600
YP	(Pa)	2.4	% Oil		
GELS	(Pa)	0.5/1.5/	% H2O		
API WL	(mL)	6.0	Oil/H2O		/
HTHP WL	(mL)		HGSolid	(kg/m³)	
API FC	(mm)	0.5	LGSolid	(kg/m³)	
MBT	(kg/m³)		ES	(mV)	
Lime	(kg/m³)		Oil Ret	(%)	
pH		11.50			
Pm	(cm³)				
Pf/Mf	(cm³ / cm³	0.40 / 0.75			

Comment1:

Mud Products

Additive	# Units
CAUSTIC SODA	1
CALCIUM CARB	25
BLEACH 12%	5
BIOLOSE	30
STAYFLO (RED	6
XANPLEX D (XC	1

Mud Cost

Daily	$8,685.25
Cumulative	$64,291.00

Bit Data

Bit No.	6	5
Run	6	5
Size (mm)	155.60	155.60
Manu.	Smith	Reed
Type	XR30T	HP12
Serial No.	MK4826	ED7426
TFA (mm²)	595.7	595.7
Depth In (m)	2,035.00	2,028.00
Depth Out (m)	2,067.00	2,035.00
Cum. Depth (m)	1.00	
Cum. Hours	0.50	
WOB (Min)(daN)	3,000	
WOB (Max)(daN)	6,000	
RPM (Min)	30	
RPM (Max)	60	
Cond (IODL)	6/5/FC/C	8/8/WT/A
Cond (BGOR)	2/ 2/BT/TD	2/ I/WT/PR
Jets 1/2/3	15.9/15.9/15.9	15.9/15.9/15.9
Jets 4/5/6		

Pipe Data

Min ID	(mm)	57.000
DC OD	(mm)	
DC	(m)	
HWDP OD	(mm)	101.30
HWDP	(m)	2,060.00
BHA		239.54
DP OD	(mm)	101.30
String Rot Weight	(daN)	45,000
Pick-Up Weight	(daN)	60,000
Slack Off Weight	(daN)	41,000

BHA Desc.: PRODUCTION HOLE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.20
Bit Sub	1	1.06
Heavy Weight Drill Pipe	26	238.28

Safety Drills

Last BOP Test (P)	3/2/2002
Last BOP Test (F)	3/11/2002
Last BOP Drill	3/11/2002

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 3/12/2002	Report: 22	DFS: 18.00	DOL: 21.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name:	AKITA 55	TMD:	2,060.00 (m)	TVD:	2,026.00 (m)	Progress:	24.00 (m)
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super:	JIM ELLIOTT 403-818-7074	Rot. Hours:	5.50	AV ROP:	4.36	Hole Size:	155.60 (mm)
Wellsite Eng:	STAN WEICH 403-231-0190	Last Casing:	177.800 (mm)	Shoe TMD:	2,024.00 (m)	Shoe TVD:	1,990.00 (m)
Daily Cost:	74,554	Cum Cost:	2,412,035	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: MIXING AND PUMPING LCM PILLS,NO GAIN ON LOSSES.90 m3 PER MIN, @ 2060 M

DRILL, LOST CIRULATION, CURR LOSSES, DRILL, LOST CIRCULATION, MIX LCM,

24hr Forecast: CURR LOSSES DRILL AHEAD,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 01:15	1.25	02	I	PDRLPRO	DRILL 155.6 mm HOLE FROM 2036 M TO 2040 M,
01:15 - 01:30	0.25	07	A	PDRLPRO	RIG SERVICE, FUNCTION LOWER PIPE RAMS CLOSE 7 SEC.,
01:30 - 03:15	1.75	02	I	PDRLPRO	DRILL 155.6 mm HOLE FROM 2040 M TO 2047 M,
03:15 - 10:00	6.75	05	C	PDRLPRO	LOST CIRCULATION .30 m3 PER MIN., MIX AND PUMP LCM PILLS, SLOWED LOSSES TO 1 m3 HOUR.
10:00 - 10:45	0.75	02	I	PDRLPRO	DRILL 155.6 mm HOLE FROM 2047 M TO 2050 M ,
10:45 - 11:15	0.50	05	I	PDRLPRO	CIRCULATE UP SAMPLE, LOSSES 1 m3 PER HOUR,
11:15 - 11:30	0.25	02	H	PDRLPRO	DRILL 155.6 mm HOLE FROM 2050 M TO 2052 M, LOSSES 1 m3 PER HOUR,
11:30 - 12:00	0.50	05	I	PDRLPRO	CIRCULATE UP SAMPLE,
12:00 - 12:15	0.25	02	H	PDRLPRO	DRILL 155.6 mm HOLE FROM 2052 M TO 2055 M, LOSSES INCREASED TO 6 m3 PER HOUR,
12:15 - 16:00	3.75	05	C	PDRLPRO	MIX AND PUMP LCM PILLS UNTIL LOSSES DOWN TO 1 m3 PER HOUR,
16:00 - 17:15	1.25	02	H	PDRLPRO	DRILL 155. 6 mm HOLE FROM 2055 M TO 2060 M, LOSSES INCREASED TO .90 m3 PER MIN. AT 2060 M,
17:15 - 00:00	6.75	05	C	PDRLPRO	MIX AMD SPOT LCM PILLS, UNABLE TO KEEP HOLE FULL RUN OUT OF VOLUME , THREE WATER TRUCKS UP TO MID NIGHT, FOUR MORE ON THERE WAY SHOULD ARRIVE BEFOR DAY LIGHT, 5 LCM PILLS ,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT

EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)
1,291.7	1	1,291.7

Formation Data

Formation Name	Top (m)
SLAVE POINT	2,021.00

Gas Readings

Conn Avg/Max (mg/L)	
Bkgr Avg/Max (mg/L)	
Trip Avg/Max (mg/L)	
H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/12/2002 | Report: 22 | DFS: 18.00 | DOL: 21.00

Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800		
Liner (mm)	152.4		
Stroke (mm)	215.9		
EFF	98.0		
Press (kPa)	6,220		
SPM	90		
Output (L/mi	1,042.08		

Velocities

Drill Pipe	(m/min)	
Drill Collar	(m/min)	
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump F-800	2,880 (kP	672.45 (L/min)
Pump	(kPa)	(L/min)
Pump	(kPa)	(L/min)

Mud Check

Type 1: LOW DAMAGE

Time/Loc	16:00 /		Ca+ (mg/L)	60	
Depth	(m)	2,058.00	K+ (mg/L)		
Temp	(°C)	27	Polymer (kg/m³)		
Density	(kg/m³)	1,015	CaCl2 (%)		
ECD	(kg/m³)		NaCl (%)		
Viscosity	(s/l)	40	Sand (%)		
PV	(mPa*s)	9.0	Tot. Solids		
YP	(Pa)	2.4	% Oil		
GELS	(Pa)	0.5/1.5/	% H2O		
API WL	(mL)	6.0	Oil/H2O	/	
HTHP WL	(mL)		HGSolid (kg/m³)		
API FC	(mm)	0.5	LGSolid (kg/m³)		
MBT	(kg/m³)		ES (mV)		
Lime	(kg/m³)		Oil Ret (%)		
pH		10.50			
Prn	(cm³)				
Pf/Mf	(cm³ / cm³)	0.20 / 0.45			

Comment1:

Mud Products

Additive	# Units
CALCIUM CARB	64
CALCIUM CARB	23
SOLUFLAKE	38
BIOLOSE	19
STAYFLO (RED	12

Mud Cost

Daily	$14,782.50
Cumulative	$79,074.00

Bit Data

Bit No.	6	
Run	6	
Size (mm)	155.60	
Manu.	Smith	
Type	XR30T	
Serial No.	MK4826	
TFA (mm²)	595.7	
Depth In (m)	2,035.00	
Depth Out (m)	2,067.00	
Cum. Depth (m)	25.00	
Cum. Hours	6.00	
WOB (Min)(daN)	3,000	
WOB (Max)(daN)	6,000	
RPM (Min)	30	
RPM (Max)	60	
Cond (IODL)	6/5/FC/C	
Cond (BGOR)	2/ 2/BT/TD	
Jets 1/2/3	15.9/15.9/15.9	
Jets 4/5/6		

Pipe Data

Min ID	(mm)	57.000
DC OD	(mm)	
DC	(m)	
HWDP OD	(mm)	101.30
HWDP	(m)	2,060.00
BHA		239.54
DP OD	(mm)	101.30
String Rot Weight	(daN)	45,000
Pick-Up Weight	(daN)	60,000
Slack Off Weight	(daN)	41,000

BHA Desc.: PRODUCTION HOLE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.20
Bit Sub	1	1.06
Heavy Weight Drill Pipe	26	238.28

Safety Drills

Last BOP Test (P)	3/2/2002
Last BOP Test (F)	3/12/2002
Last BOP Drill	3/11/2002

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 3/13/2002	Report: 23	DFS: 19.00	DOL: 22.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name: AKITA 55	TMD: 2,060.00 (m)	TVD: 2,026.00 (m)	Progress:				
	KB: 654.01 (m)	GL: 649.30 (m)	KB to GL: 4.71 (m)				
Rig Super: JIM ELLIOTT 403-818-7074	Rot. Hours:	AV ROP:	Hole Size: 155.60 (mm)				
Wellsite Eng: STAN WEICH 403-231-0190	Last Casing: 177.800 (mm)	Shoe TMD: 2,024.00 (m)	Shoe TVD: 1,990.00 (m)				
Daily Cost: 61,697	Cum Cost: 2,473,731	AFE Est: 3,256,200	AFE No.: 0143002				

Current Status: MONITORING WELL, START TO PUMP LCM PILL,

MIX AND PUMP PILLS, MONITOR WELL,

24hr Forecast: MIX AND PUMP PILLS MONITOR WELL

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 12:00	12.00	05	C T	DRLPRO	MIX AND PUMP 5 LCM PILLS AND MONITOR WELL PUMPING IN TO ANNULUS START TO GET SOME RETURNS WHEN DISPLACING LCM PILLS,
12:00 - 12:45	0.75	05	C T	DRLPRO	CASING PRESSURE BUILD TO 1021 KPA, BULL HEAD 3 m3 DOWN ANNULUS UNTIL PRESSURE DROP TO O KPA , PUMPING LCM PILL # 6 WELL STARTED TO UNLOAD, CLOSE IN WELL, GO THOUGHT CHOKE GETTING FLAME ABOUT 3 METER HIGH, FINISH DISPLACING PILL,
12:45 - 20:00	7.25	05	C T	DRLPRO	MONITOR WELL PUMP 1 m3 EVERY 15 MINS TO KEEP FROM FREEZING UP MUD SYSTEM, NO MORE CASING PRESSURE,
20:00 - 22:00	2.00	05	C T	DRLPRO	ATTEMPED TO GET READY TO DRILL AHEAD BLIND WATER TRUCKS COULD NOT LOAD FAST ENOUGH TO KEEP UP, ONLY ROOM FOR ONE TRUCK ON THE LAKE AT A TIME,HIGH VOLUME PUMP COMING TO PUMP FROM LAKE TO SHORE.
22:00 - 00:00	2.00	05	T	DRLPRO	MONITOR WELL NO ANNULAR CASING PRESSURE BUILD UP,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
1,291.7	1	1,291.7	SLAVE POINT	2,021.00	Bkgr Avg/Max (mg/L)	
					Trip Avg/Max (mg/L)	
					H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/13/2002 | Report: 23 | DFS: 19.00 | DOL: 22.00

Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump			
Liner			
Stroke			
EFF			
Press			
SPM			
Output			

Velocities

Drill Pipe	(m/min)	
Drill Collar	(m/min)	
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump F-800	2,880 (kP	672.45 (L/min)
Pump	(kPa)	(L/min)
Pump	(kPa)	(L/min)

Mud Check

Type 1:	LOW DAMAGE				
Time/Loc	08:30 /		Ca+ (mg/L)	60	
Depth	(m)	2,060.00	K+ (mg/L)		
Temp	(°C)	27	Polymer (kg/m³)		
Density	(kg/m³)	1,015	CaCl2 (%)		
ECD	(kg/m³)		NaCl (%)		
Viscosity	(s/l)	40	Sand (%)		
PV	(mPa*s)	10.0	Tot. Solids	1.000	
YP	(Pa)	2.4	% Oil		
GELS	(Pa)	0.5/1.5/	% H2O		
API WL	(mL)	6.0	Oil/H2O	/	
HTHP WL	(mL)		HGSolid (kg/m³)		
API FC	(mm)	0.5	LGSolid (kg/m³)	25.0	
MBT	(kg/m³)		ES (mV)		
Lime	(kg/m³)		Oil Ret (%)		
pH		10.00			
Pm	(cm³)				
Pf/Mf	(cm³ / cm³)	0.15 / 0.30			
Comment1:					

Mud Products

Additive	# Units
SAWDUST	15
CALCIUM CARB	41
CALCIUM CARB	62
CALCIUM CARB	33
SOLUFLAKE	73
BIOLOSE	4
STAFLO REGUL	2

Mud Cost

Daily	$14,840.05
Cumulative	$93,914.00

Bit Data

Bit No.	6	
Run	6	
Size (mm)	155.60	
Manu.	Smith	
Type	XR30T	
Serial No.	MK4826	
TFA (mm²)	595.7	
Depth In (m)	2,035.00	
Depth Out (m)	2,067.00	
Cum. Depth (m)	25.00	
Cum. Hours	6.00	
WOB (Min)(daN)	3,000	
WOB (Max)(daN)	6,000	
RPM (Min)	30	
RPM (Max)	60	
Cond (IODL)	6/5/FC/C	
Cond (BGOR)	2/ 2/BT/I D	
Jets 1/2/3	15.9/15.9/15.9	
Jets 4/5/6		

Pipe Data

Min ID	(mm)	57.000
DC OD	(mm)	
DC	(m)	
HWDP OD	(mm)	101.30
HWDP	(m)	2,060.00
BHA		239.54
DP OD	(mm)	101.30
String Rot Weight	(daN)	45,000
Pick-Up Weight	(daN)	60,000
Slack Off Weight	(daN)	41,000

BHA Desc.: PRODUCTION HOLE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.20
Bit Sub	1	1.06
Heavy Weight Drill Pipe	26	238.28

Safety Drills

Last BOP Test (P)	3/7/2002
Last BOP Test (F)	3/13/2002
Last BOP Drill	3/11/2002

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 3/14/2002	Report: 24	DFS: 20.00	DOL: 23.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name: AKITA 55	TMD:	2,060.00 (m)	TVD:	2,026.00 (m)	Progress:		
	KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)	
Rig Super: JIM ELLIOTT 403-818-7074	Rot. Hours:		AV ROP:		Hole Size:	155.60 (mm)	
Wellsite Eng: STAN WEICH 403-231-0190	Last Casing:	177.800 (mm)	Shoe TMD:	2,024.00 (m)	Shoe TVD:	1,990.00 (m)	
Daily Cost: 69,463	Cum Cost:	2,543,195	AFE Est:	3,256,200	AFE No.:	0143002	

Current Status: STARTED DRILLING NO LOSSES, DRILLED TO 2060.90 M LOST CIRCULATION

MIX AND PUMP LCM PILLS, MONITOR WELL, CIRCULATE WAY TO BOTTOM,

24hr Forecast: DRILL TO TD,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 12:00	12.00	05	C S	DRLPRO	MIX AND PUMP FOUR 17 m3 LCM PILLS ,MONITOR WELL BETWEEM PILL MIXING,WHEN PUMPING PILLS PARTICLE RETURNS, NO GAS,HICK IN MUD PUMPS & HOLE FILL PUMPS EVERY 10 MINS TO KEEP FROM FREEZING .
12:00 - 19:45	7.75	05	C S	DRLPRO	MONITOR WELL KICK IN PUMPS ERVERY 10 MINS,
19:45 - 00:00	4.25	05	C S	DRLPRO	BREAK CIRCULATION , CIRCULATE BOTTOMS UP AT .70 m3 PER MIN. LOST 1.5 m3, FROM 2038 M CIRCULATE BOTTOMS UP EVERY 2 M AT 24:00 HOURS AT 2048 M, VOLUME STAYING STABLE, AT .70 m3 PER MIN., BY PASS SHALE SHAKERS,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT

EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)
1,291.7	1	1,291.7

Formation Data

Formation Name	Top (m)
SLAVE POINT	2,021.00

Gas Readings

Conn Avg/Max (mg/L)	
Bkgr Avg/Max (mg/L)	
Trip Avg/Max (mg/L)	
H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/14/2002 | Report: 24 | DFS: 20.00 | DOL: 23.00

Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800		
Liner (mm)	152.5		
Stroke (mm)	215.9		
EFF	98.0		
Press (kPa)	2,880		
SPM	58		
Output (L/mi	672.45		

Velocities

Drill Pipe (m/min)	
Drill Collar (m/min)	
Riser (m/min)	
Lag Time (min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1: LOW DAMAGE

Time/Loc	12:00 /	Ca+ (mg/L)	
Depth (m)	2,060.00	K+ (mg/L)	
Temp (°C)	20	Polymer (kg/m³)	
Density (kg/m³)	1,100	CaCl2 (%)	
ECD (kg/m³)		NaCl (%)	
Viscosity (s/l)	61	Sand (%)	
PV (mPa*s)	18.0	Tot. Solids	
YP (Pa)	11.4	% Oil	
GELS (Pa)	1.0/2.0/	% H2O	
API WL (mL)	6.0	Oil/H2O	
HTHP WL (mL)		HGSolid (kg/m³)	
API FC (mm)	0.5	LGSolid (kg/m³)	
MBT (kg/m³)		ES (mV)	
Lime (kg/m³)		Oil Ret (%)	
pH	7.00		
Pm (cm³)			
Pf/Mf (cm³ / cm³			

Comment1:

Mud Products

Additive	# Units
CALCIUM CARB	247
CALCIUM CARB	263
CALCIUM CARB	79
SOLUFLAKE	83
SHRINKWRAPS	40
BIOLOSE	15
STAFLO REGUL	9

Mud Cost

Daily	$26,028.65
Cumulative	$119,942.00

Bit Data

Bit No.	6
Run	6
Size (mm)	155.60
Manu.	Smith
Type	XR30T
Serial No.	MK4826
TFA (mm²)	595.7
Depth In (m)	2,035.00
Depth Out (m)	2,067.00
Cum. Depth (m)	25.00
Cum. Hours	6.00
WOB (Min)(daN)	3,000
WOB (Max)(daN)	6,000
RPM (Min)	30
RPM (Max)	60
Cond (IODL)	6/5/FC/C
Cond (BGOR)	2/ 2/BT/TD
Jets 1/2/3	15.9/15.9/15.9
Jets 4/5/6	

Pipe Data

Min ID (mm)		57.000
DC OD (mm)		
DC (m)		
HWDP OD (mm)		101.30
HWDP (m)		2,060.00
BHA		239.54
DP OD (mm)		101.30
String Rot Weight (daN)		55,000
Pick-Up Weight (daN)		60,000
Slack Off Weight (daN)		41,000

BHA Desc.: PRODUCTION HOLE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.20
Bit Sub	1	1.06
Heavy Weight Drill Pipe	26	238.28

Safety Drills

Last BOP Test (P)	3/2/2002
Last BOP Test (F)	3/13/2002
Last BOP Drill	3/11/2002

Survey Data

MD (m)	Incl.	Azimuth	TVD (m)	N/S (-) (m)	E/W (-) (m)	Section	DLS (°/30m)	BUR (°/30m)
0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 3/15/2002	Report: 25	DFS: 21.00	DOL: 24.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name:	AKITA 55	TMD:	2,078.00 (m)	TVD:	2,044.00 (m)	Progress:	18.00 (m)
		KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)
Rig Super:	JIM ELLIOTT 403-818-7074	Rot. Hours:	4.00	AV ROP:	4.50	Hole Size:	155.60 (mm)
Wellsite Eng:	STAN WEICH 403-231-0190	Last Casing:	177.800 (mm)	Shoe TMD:	2,024.00 (m)	Shoe TVD:	1,990.00 (m)
Daily Cost:	39,383	Cum Cost:	2,582,578	AFE Est:	3,256,200	AFE No.:	0143002

Current Status: RUNNING GAUGE RING W/ IPS WIRE LINE TRUCK,

MIX AND PUMP LCM PILLS, MONITOR WELL, DRILL, CLEAN MUD TANKS,

24hr Forecast: RUN CASING PACKER, LAYDOWN DRILL PIPE,PICK UP TUBBING,

Operations Summary

From - To	Hours	Code	Sub Code	Phase	Description of Operations
00:00 - 05:45	5.75	05	C P	DRLPRO	CIRCULATE BOTTOMS UP EVERY 2 m TO 2060 M CIRCULATE BOTTOMS UP.
05:45 - 06:15	0.50	02	H P	DRLPRO	DRILL 155.6 mm HOLE FROM 2060 M TO 2061 M STARTED TO TAKE LOSSES,
06:15 - 07:30	1.25	05	C P	DRLPRO	PUMP LCM PILL, MONITOR WELL,
07:30 - 11:00	3.50	02	H P	DRLPRO	DRILL 155.6 mm HOLE FROM 2061 M TO 2078 M, WITH TOTAL LOSSES,PUMPING AT .92 m3 PER MIN.,
11:00 - 15:15	4.25	05	C P	DRLPRO	MIX AND PUMP 28 M3 LCM PILLS,
15:15 - 21:00	5.75	05	C P	DRLPRO	CLEAN MUD TANKS, PUMPING DOWN ANNULUS, MONITORING WELL BEFOR TRIPPING OUT OF HOLE,
21:00 - 00:00	3.00	06	C P	DRLPRO	TRIP OUT OF HOLE WHILE PUMPING DOWN ANNULUS . 66 m3 PER MIN.,

DAILY OPERATIONAL COMMENTS(24hr Summary):

LOT/FIT

EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)
1,291.7	1	1,291.7

Formation Data

Formation Name	Top (m)
SLAVE POINT	2,021.00

Gas Readings

Conn Avg/Max (mg/L)	
Bkgr Avg/Max (mg/L)	
Trip Avg/Max (mg/L)	
H2S (%)	

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68 | Date: 3/15/2002 | Report: 25 | DFS: 21.00 | DOL: 24.00
Event Name: ORIG DRILLING | Start: 2/23/2002 | End:

Pump Data

Pump	F-800		
Liner (mm)	152.5		
Stroke (mm)	215.9		
EFF	98.0		
Press (kPa)	2,880		
SPM	58		
Output (L/mi	672.45		

Velocities

Drill Pipe	(m/min)	
Drill Collar	(m/min)	
Riser	(m/min)	
Lag Time	(min)	

Slow Pump

Pump	
Pump	
Pump	

Mud Check

Type 1:	LOW DAMAGE				
Time/Loc	12:00 /		Ca+	(mg/L)	
Depth	(m)	2,060.00	K+	(mg/L)	
Temp	(°C)	20	Polymer	(kg/m³)	
Density	(kg/m³)	1,100	CaCl2	(%)	
ECD	(kg/m³)		NaCl	(%)	
Viscosity	(s/l)	61	Sand	(%)	
PV	(mPa*s)	18.0	Tot. Solids		
YP	(Pa)	11.4	% Oil		
GELS	(Pa)	1.0/2.0/	% H2O		
API WL	(mL)	6.0	Oil/H2O		
HTHP WL	(mL)		HGSolid	(kg/m³)	
API FC	(mm)	0.5	LGSolid	(kg/m³)	
MBT	(kg/m³)		ES	(mV)	
Lime	(kg/m³)		Oil Ret	(%)	
pH		7.00			
Pm	(cm³)				
Pf/Mf	(cm³ / cm³				
Comment1:					

Mud Products

Additive	# Units
SAWDUST	20
PALLETS (DELIV	5
CALCIUM CARB	43
CALCIUM CARB	115
CALCIUM CARB	4
SOLUFLAKE	18
SHRINKWRAPS	8
BIOLOSE	7
STAFLO REGUL	6

Mud Cost

Daily	$7,157.70
Cumulative	$127,100.00

Bit Data

Bit No.	6	
Run	6	
Size (mm)	155.60	
Manu.	Smith	
Type	XR30T	
Serial No.	MK4826	
TFA (mm²	595.7	
Depth In (m)	2,035.00	
Depth Out (m)	2,067.00	
Cum. Depth (m)	43.00	
Cum. Hours	10.00	
WOB (Min)(daN)	3,000	
WOB (Max)(daN)	6,000	
RPM (Min)	30	
RPM (Max)	60	
Cond (IODL)	6/5/FC/C	
Cond (BGOR)	2/ 2/BT/TD	
Jets 1/2/3	15.9/15.9/15.9	
Jets 4/5/6		

Pipe Data

Min ID	(mm)	57.000
DC OD	(mm)	
DC	(in)	
HWDP OD	(mm)	101.30
HWDP	(m)	2,060.00
BHA		239.54
DP OD	(mm)	101.30
String Rot Weight	(daN)	55,000
Pick-Up Weight	(daN)	60,000
Slack Off Weight	(daN)	41,000

BHA Desc.: PRODUCTION HOLE

Item	Jts	Length (m)
Tri-Cone Bit	1	0.20
Bit Sub	1	1.06
Heavy Weight Drill Pipe	26	238.28

Safety Drills

Last BOP Test (P)	3/2/2002
Last BOP Test (F)	3/15/2002
Last BOP Drill	3/11/2002

Survey Data

MD	Incl.	Azimuth	TVD	N/S (-)	E/W (-)	Section	DLS	BUR

Anadarko Canada Corporation

Daily Drilling Report

Well Name: ANADARKO NETLA A-68			Date: 3/16/2002	Report: 26	DFS: 22.00	DOL: 25.00	
Event Name: ORIG DRILLING			Spud: 2/23/2002	RR:			
Rig Name: AKITA 55	TMD:	2,078.00 (m)	TVD:	2,044.00 (m)	Progress:		
	KB:	654.01 (m)	GL:	649.30 (m)	KB to GL:	4.71 (m)	
Rig Super: JIM ELLIOTT 403-818-7074	Rot. Hours:		AV ROP:		Hole Size:	155.60 (mm)	
Wellsite Eng: STAN WEICH 403-231-0190	Last Casing:	177.800 (mm)	Shoe TMD:	2,024.00 (m)	Shoe TVD:	1,990.00 (m)	
Daily Cost: 177,575	Cum Cost:	2,760,153	AFE Est:	3,256,200	AFE No.:	0143002	

Current Status: PICKING UP AND RUN 88.9 mm TUBBING

RUN GAUGE RING, RUN PACKER, TRIP IN LAY DOWN DP & BHA,

24hr Forecast: RUN TUBBING,

Operations Summary

From - To	Hours	Code	Sub Code		Phase	Description of Operations
00:00 - 01:30	1.50	06	C	P	DRLPRO	TRIP OUT OF HOLE,PUMPING INTO ANNULUS .66 m3 PER MIN.
01:30 - 01:45	0.25	07	A	P	DRLPRO	RIG SERVICE, FUNCTION BLIND RAMS,
01:45 - 08:00	6.25	01	A	P	DRLPRO	RIG UP IPS LUBRICATE, TEST TO 4000 KPA, RUN GAUGE RING,
08:00 - 10:30	2.50	33		P	DRLPRO	RUN AND SET PACKER AT 2012 M,
10:30 - 11:00	0.50	15	D	P	DRLPRO	TEST PACKER TO 17000 KPA,
11:00 - 13:30	2.50	06	C	P	DRLPRO	RUN BOND LOG, RIG OUT IPS,
13:30 - 00:00	10.50	06	G	P	DRLPRO	TRIP IN HOLE, POH LAYING DOWN DRILL PIPE AND BHA,

DAILY OPERATIONAL COMMENTS(24hr Summary):
AT 24:00 HOURS ON MARCH 16/2002 ANADARKO COMPLETION TAKES OVER ANADARKO NETLA A-68 WELL AND CONSUMES ALL COST FORWARD ON AFE # 0144001 SUPERVISOR MARK BORLE PHONE 780-982-3217

LOT/FIT			Formation Data		Gas Readings	
EMW (kg/m³)	MAASP (kPa)	Max Mud Wt (kg/m³)	Formation Name	Top (m)	Conn Avg/Max (mg/L)	
1,291.7	1	1,291.7	SLAVE POINT	2,021.00	Bkgr Avg/Max (mg/L)	
					Trip Avg/Max (mg/L)	
					H2S (%)	

APPENDIX 10

Netla A-68
Well Summary
Initial Completion

3/14/2002	Travel to location.Report to drilling consultant.Rig waiting on water to mix lost circulation material.
3/15/2002	Achieved circulation.Drill out to TD 2078 mkb.Pull bit into casing.Circulate well to clean fresh water.Start to pull out of hole with drill pipe.
3/16/2002	Continue to pull out drill pipe.Rig in electric wireline unit.Run 155 mm guage ring c/w CCL. Run in hole production packer c/w tailpipe.Set packer @ 2012 mkb.Tbg.bottom @ 2022.76 mkb. Pressure test packer to 17 mpa.Good.Perform cement bond log.Run in drill pipe.Pull out of hole laying down drill pipe.
3/17/2002	Continue to lay down drill pipe.Prepare to run production Tbg.Run in hole 88.9 mm Tbg.Tag and latch packer.Trouble releasing from packer to space out.Attempt to circulate down Tbg.to displace well to inhibited fluid.Tbg.pressure up.Unable to circulate.Attempt to re-latch packer. Unable to latch packer.Able to pump down casing.Wait on water trucks to pull Tbg.
3/18/2002	Tank trucks fill water tanks.Pull out of hole with Tbg.Packer left down hole.Slick joint backed out of packer.Rag jammed inbetween overshot and slick joint.Run in hole fishing tools.
3/19/2002	Continue to run in hole with fishing tools.Attempt to latch packer.No latch.Pull out fishing tools. Re-run different grapple.Latch packer.Unable to stay latched onto packer.Pull out of hole with fishing tools.Start to rig in electric line truck.
3/20/2002	Continue to rig in electric line truck.Run 155 mm guage ring to packer top @ 2011.1 mkb.Run in hole w/Halliburton permanent packer c/w tailpipe.Set packer @ 2000.57 mkb.Overshot on tailpipe over top of bottom packer @ 2011.1 mkb.Pressure test to 17 mpa.Good.Run in hole 88.9 mm production Tbg.Tag packer and space out.Circulate to inhibited fresh water.Latch packer and land dognut.Pressure test to 14 mpa.Good.Remove B.O.P.'s.Install wellhead. Start to tear out rig.
3/21/2002	Rig out and prepare to move off drilling rig.
3/22/2002	Move drilling rig.Spot test equipment.
3/23/2002	Rig in test equipment c/w slickline unit.Pull prong and plug.Pull 5 swabs to enhance flow. Perform gradient.Open well to testers for cleanup.
3/24/2002	Continue to flow well.Making approx. 9 m3 water per/hr on 12.7 mm choke.WHFP @ 4000 kpa
3/25/2002	Continue to flow well on 12.7 mm choke. 1600 Hrs. WHFP 3900 kpa Gas rate 40 10 3 m3/day. 1630 Hrs.Increase choke to 19.05 mm.Continue flow test. 1830 Hrs.Increase choke to 50.8 mm.Continue flow test.

3/26/2002	Continue to flow well on 50.8 mm choke. 1800 Hrs. WHFP 9400 kpa Gas rate 399 10 3 m3/day
3/27/2002	Continue to flow well on 50.8 mm choke. 1200 Hrs. WHFP 9850 kpa Gas rate 470.55 10 3 m3/day Shut in well and run recorders.Leave well shut in for 24 Hr.buildup prior to open to flow.
3/28/2002	1200 Hrs. SITP 14,500 kpa. 2400 Hrs. WHFP 13,900 kpa Gas rate 163.7 10 3 m3/day
3/29/2002	2400 Hrs.Increase choke to 12.7 mm.Continue to flow well. 1200 Hrs. WHFP 12,300 kpa Gas rate 185.8 10 3 m3/day 1200 Hrs.Increase choke to 25.8 mm.Continue to flow well. 2400Hrs. WHFP 11,500 kpa Gas rate 346.46 10 3 m3/day
3/30/2002	Continue to flow well on 25.8 mm choke 1200 Hrs. WHFP 10,963 kpa Gas rate 434.97 10 3 m3/day 1200 Hrs.Increase choke to 50.8 mm.Continue to flow well.
3/31/2002	Continue to flow well on 50.8 mm choke. 1800 Hrs. WHFP 9687 kpa Gas rate 564.16 10 3 m3/day.
4/1/2002	Continue to flow well on 50.8 mm choke. 1800 Hrs. WHFP 9591 kpa Gas rate 577.15 10 3 m3/day.
4/2/2002	Continue to flow well on 50.8 mm choke. 1200 Hrs. WHFP 9538 kpa Gas rate 586.37 10 3 m3/day. 1200 Hrs.Shut in flow test.Rig out and release all equipment. Tbg.pressure build to 14,189 kpa in 7 Hrs.

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			**Date:**	April 03/2002	**Day:**	21
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$749,284	**Daily Cost:** $24,972	**Cum Cost:** $774,256

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	1994.04
#2				
#3				
Tubing out		**Tubing in well**		**1994.04**

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		33.40
Total Fluid Recovered To Date		1706.40
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services (Supervision)	$1,000
Beaver Camp	$3,030
Artic Energy Systems (Testers)	$3,500
Pesklevis Holdings (Water truck)	$800
Husky Transport (Haul acid out)	$4,002
Husky Transport (Haul tanks out)	$5,289
Manning's Hotshot (Haul out environment	$3,424
Total Production Rentals (400 bbl tank)	$50
Iroc Safety (1 st Aid)	$625
Alpine Environmental	$3,252

Zones of Interest:	Name:	Slave Point	Perforations:	Open Hole 2024--2078 mKB.
	Name:		Perforations:	mKB.
	Name:		Perforations:	mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Rig out all equipment. Prepare lease for season.

From **Detailed Description of Previous Day's Operation**

07:30 SITP--14189 kpa SICP--5 kpa

Whitefox Environmental service personal are dismantling the sewage treating system, at the camp. (Haul out camp tomorrow.) Haul unit back to Edson, Alta.
Arctic Energy are all rigged out. Formula Transport to haul equipment to Mile 95, into the Halfway to another Anadarko loc.
Husky Transport to haul out 17 m3 of 28% acid that was never used to Adsett Plant disposal well. To be pumped into.
Husky also to haul there tanks back to FT. St. John yard. (2 tanks)
Formula to haul streeper tanks to Ft. Nelson.Streeper yard. (2 tanks)
Formula to haul Total Production Rentals tank to Cooper Barging in Ft. Nelson. (1 tank)
Rowes Construction are putting lease and well site area back to bed.
Husky to bring in fencing material to put around wellheads @ C-07 & A-68.
Alpine Environmental all rigged out. Haul equipment back to Ft. St. John & Grande Prairie.
Powell to rig out swamp matting & haul out. Have hauled out some when drilling rig was moved out. Taken to Precission # 624 in the Ferral Cr. area. Take this matting there also. Return fork lift to FSJ.
Light plant & fuel tank back to Cat Rentals in Ft. Nelson.
Gas tank & forks for fork lift to Liard Fuel Centre & Beaver Enterprises.

Start Travel home tomorrow.

Weather/Temp:	Clear -22	**Roads Conditions:**	good	**Safety Co.:**	Iroc. Safety
Service Rig:		**Rig Manager:**		**Mobile:**	
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			**Date:**	April 02:2002	**Day:**	20
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$714,723	**Daily Cost:** $34,561	**Cum Cost:** $749,284

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	1994.04
#2				
#3				
Tubing out		**Tubing in well**		**1994.04**

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		33.40
Total Fluid Recovered To Date		1706.40
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services (Supervision)	$1,000
Beaver Camp	$3,030
Artic Energy Systems (Testers)	$3,000
Pesklevis Holdings (Water truck)	$800
Whitefox Environmental Services (Sanitation)	$13,247
Deranway Enterprises Ltd. (Wellsite trailer)	$5,000
Neufeld Petroleum & Propane	$1,261
Total Production Rentals (400 bbl tank)	$50
Iroc Safety (1 st Aid)	$625
Alpine Environmental	$6,548

Zones of Interest:	Name:	Slave Point	Perforations:	Open Hole 2024--2078	mKB.
	Name:		Perforations:		mKB.
	Name:		Perforations:		mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Flow test well and evaluate.

From — **Detailed Description of Previous Day's Operation**

Continue to flow test well on 50.8mm choke & 76.2mm orrifice plate.

00:00 Just about had to shut-in well. Test vessel is at maximum pressure (1744 kpa) and gas rate. Differential pressure on vessel is at max. Needle on chart is just about off the scale.
WHFP--9598 kpa SICP--5 kpa Gas rate @ 582.557 decs/day Sal @ 10000 ppm Ph-7
02:00 WHFP--9591 kpa SICP--5 kpa Gas rate @ 583.634 decs/day Sal @ 10000 ppm Ph-7
04:00 WHFP--9598 kpa SICP--5 kpa Gas rate @ 581.229 decs/day Sal @ 10000 ppm Ph-7
06:00 WHFP--9591 kpa SICP--5 kpa Gas rate @ 583.449 decs/day Sal @ 10000 ppm Ph-7
Fluid returns @ avg. 2.5--3 m3 /hr. Gas rate holding @ avg 582 decs/day. H2s @ 0 ppm. Fluid temp @ 40 C
08:00 WHFP--9570 kpa SICP--5 kpa Gas rate @ 582.759 decs/day Sal @ 10000 ppm Ph-7
10:00 WHFP--9543 kpa SICP--5 kpa Gas rate @ 583.962 decs/day Sal @ 10000 ppm Ph-7
12:00 WHFP--9536 kpa SICP--5 kpa Gas rate @ 586.372 decs/day Sal @ 10000 ppm Ph-7
Shut-in well at wing valve. Continue to monitor tbg pressure for build-up. Monitor for 6 hrs. Rig down test equipment.
Ship all water to pits and have Alpine treat & dispose.. Rig moving equipment to arrive tomorrow to haul out.
12:05 SITP--13969 kpa
12:10 SITP--14024 kpa
12:15 SITP--14066 kpa
12:30 SITP--14135 kpa
12:45 SITP--14176 kpa
13:00 SITP--14279 kpa
13:30 SITP--14231 kpa
14:00 SITP--14231 kpa
15:00 SITP--14231 kpa
16:00 SITP--14231 kpa
18:00 SITP--14231 kpa. Shut-in well. Secure well & lease. All equipment rigged down. Ready to be moved out.

Total fluid returned = 1706.40 m3
Total gas accum = 2860.856 decs.

Weather/Temp:	Cloudy & snow -21	**Roads Conditions:**	good	**Safety Co.:**	Iroc. Safety
Service Rig:		**Rig Manager:**		**Mobile:**	
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Nella A-68 Northwest Territories			**Date:**	April 01/2002	**Day:**	19
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$698,039	**Daily Cost:** $16,684	**Cum Cost:** $714,723

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	1994.04
#2				
#3				
Tubing out		**Tubing in well**		**1994.04**

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		91.13
Total Fluid Recovered To Date		1673.00
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services (Supervision)	$1,000
Beaver Camp	$3,030
Artic Energy Systems (Testers)	$3,000
Pesklevis Holdings (Water truck)	$800
Liard Fuel Service	$1,843
Total Production Rentals (400 bbl tank)	$50
Iroc Safety (1 st Aid)	$625
Alpine Environmental	$6,336

Zones of Interest:	Name: Slave Point	Perforations: Open Hole 2024--2078	mKB.
	Name:	Perforations:	mKB.
	Name:	Perforations:	mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Flow test well and evaluate.

From — Detailed Description of Previous Day's Operation

Continue to flow test well through Artic Energy Test seperator. Flow on 50.8mm choke & 76.2mm orrifice plate.

00:00 WHFP--9894 kpa SICP--5 kpa Gas rate @ 565.367 decs/day Sal @ 10000 ppm Ph-7
02:00 WHFP--9694 kpa SICP--5 kpa Gas rate @ 565.367 decs/day Sal @ 10000 ppm Ph-7
04:00 WHFP--9694 kpa SICP--5 kpa Gas rate @ 567.759 decs/day Sal @ 10000 ppm Ph-7
06:00 WHFP--9687 kpa SICP--5 kpa Gas rate @ 567.759 decs/day Sal @ 10000 ppm Ph-7
Fluid rate @ 4.5 m3 / hr. Gas rate & fluid rate are holding steady. WHFP is staying constant.
08:00 WHFP--9653 kpa SICP--5 kpa Gas rate @ 570.584 decs/day Sal @ 10000 ppm Ph-7
10:00 WHFP--9632 kpa SICP--5 kpa Gas rate @ 572.350 decs/day Sal @ 10000 ppm Ph-7
12:00 WHFP--9632 kpa SICP--5 kpa Gas rate @ 571.301 decs/day Sal @ 10000 ppm Ph-7
14:00 WHFP--9609 kpa SICp--5 kpa Gas rate @ 574.754 decs/day Sal @ 10000 ppm Ph-7
16:00 WHFP--9570 kpa SICP--5 kpa Gas rate @ 574.754 decs/day Sal @ 10000 ppm Ph-7
18:00 WHFP--9591 kpa SICP--5 kpa Gas rate @ 577.150 decs/day Sal @ 10000 ppm Ph-7
20:00 WHFP--9591 kpa SICP--5 kpa Gas rate @ 578.416 decs/day Sal @ 10000 ppm Ph-7
22:00 WHFP--9598 kpa SICP--5 kpa Gas rate @ 581.358 decs/day Sal @ 10000 ppm Ph-7
24:00 WHFP--9598 kpa SICP--5 kpa Gas rate @ 582.557 decs/day Sal @ 10000 ppm Ph-7

Total fluid made to date @ 1673m3
Fluid made last 24 hrs= 91.13 m3
Average fluid rate @ 3.8 m3
Fluid temp @ 41 C
H2s @ 0 ppm.

Weather/Temp:	Cloudy & snow -21	**Roads Conditions:**	good	**Safety Co.:**	Iroc Safety
Service Rig:		**Rig Manager:**		**Mobile:**	
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			Date:	March 31/2002	Day:	18
AFE #:	144001	Est Cost:		Prev.Cost:	$683,828	Daily Cost: $14,211	Cum Cost: $698,039

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	1994.04
#2				
#3				
Tubing out		Tubing in well		1994.04

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		110.00
Total Fluid Recovered To Date		1582.70
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services (Supervision)	$1,000
Beaver Camp	$3,030
Artic Energy Systems (Testers)	$3,000
Pesklevis Holdings (Water truck)	$800
Be-Safe (H2S)	$2,000
Total Production Rentals (400 bbl tank)	$50
Iroc Safety (1 st Aid)	$625
Alpine Environmental	$3,706

Zones of Interest:	Name:	Slave Point	Perforations:	Open Hole 2024--2078	mKB.
	Name:		Perforations:		mKB.
	Name:		Perforations:		mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Flow test well and evaluate.

From — **Detailed Description of Previous Day's Operation**

Continue to flow well on 50.80 mm choke & 76.2mm orrifice plate.

00:00 WHFP--9649 kpa SICP--5 kpa Gas rate @ 559.672 decs/day. Sal @ 10000 ppm Ph-7
02:00 WHFP--9653 kpa SICP--5 kpa Gas rate @ 554.488 decs/day Sal @ 9000 ppm Ph-7
04:00 WHFP--9646 kpa SICP--5 kpa Gas rate @ 554.592 decs/day Sal @ 10000 ppm Ph-7
06:00 WHFP--9653 kpa SICP--5 kpa Gas rate @ 552.677 decs/day Sal @ 11000 ppm Ph-7
Ave. fluid @ 5m3/hr. Salinity content has increased in the last 10 hrs. From 1000ppm - 110000ppm.
Gas rate is holding steady @ approx. 550 decs/day WHFP steady @ 9600 kpa.
08:00 WHFP--9660 kpa SICP--5 kpa Gas rate @ 556.088 decs/day. Sal @ 11000 ppm Ph-7
10:00 WHFP--9653 kpa SICP--5 kpa Gas rate @ 560.094 decs/day Sal @ 11000 ppm Ph-7
12:00 WHFP--9632 kpa SICP--5 kpa Gas rate @ 560.273 decs/day Sal @ 11000 ppm Ph-7
14:00 WHFP--9611 kpa SICP--5 kpa Gas rate @ 561.474 decs/day Sal @ 11000 ppm Ph-7
16:00 WHFP--9687 kpa SICP--5 kpa Gas rate @ 563.139 decs/day Sal @ 11000 ppm Ph-7
18:00 WHFP--9687 kpa SICP--5 kpa Gas rate @ 564.167 decs/day Sal @ 11000 ppm Ph-7 H2s @ 0 %
Ave. fluid rate @ 5 m3/hr. Gas rate & fluid returns are staying the same. Total fluid since start of second test @338 m3.
20:00 WHFP--9687 kpa SICP--5 kpa Gas rate @ 561.174 decs/day Sal @ 9000 ppm Ph-7
22:00 WHFP--9694 kpa SICP--5 kpa Gas rate @ 565.367 decs/day Sal @ 10000 ppm Ph-7
24:00 WHFP--9694 kpa SICP--5 kpa Gas rate @ 565.367 decs/day Sal @ 10000 ppm Ph-7

Total fluid = 1582 m3
Fluid made last 24 hrs= 110 m3
Average fluid rate @ 4.5 m3 / hr.
Fluid temp @ 38 C
H2s @ 0 ppm.

Weather/Temp:	Cloudy & snow -21	Roads Conditions:	good	Safety Co.:	Iroc. Safety
Service Rig:		Rig Manager:		Mobile:	
Prepared by:	Mark Borle	Res/Motel & Room #:	Camp	Mobile:	1-780-982-3217
Prepared for:	Mike Varga	UWI:	00/A68-60-50-122-30 NWT	License Number:	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			**Date:**	March 30 /2002	**Day:**	17
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$660,522	**Daily Cost:** $23,306	**Cum Cost:** $683,828

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	38.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	1994.04
#2				
#3				
Tubing out		**Tubing in well**		**1994.04**

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		123.74
Total Fluid Recovered To Date		1472.70
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services (Supervision)	$1,000
Beaver Camp	$3,030
Artic Energy Systems (Testers)	$3,000
Pesklevis Holdings (Water Truck)	$800
Thenaago Development Corp (Construction)	$5,000
Be-Safe (H2S)	$1,200
Total Production rentals (400 bbl tank)	$50
Iroc Safety (1 st Aid)	$625
Alpine Environmental	$8,601

Zones of Interest:	Name: Slave Point	Perforations: Open Hole 2024--2078	mKB.
	Name:	Perforations:	mKB.
	Name:	Perforations:	mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Flow test well and evaluate.

From **Detailed Description of Previous Day's Operation**

Continue to flow test well on a 25.8mm choke & 76.20mm orrifice plate.

00:00 WHFP--11508 kpa SICP--5 kpa Gas rate @ 346.462 decs/day Sal @ 1000 ppm Ph-7
02:00 WHFP--10949 kpa SICP--5 kpa Gas rate @ 420.145 decs/day Sal @ 1000 ppm Ph-7
04:00 WHFP--10949 kpa Sicp--5 kpa Gas rate @ 422.802 decs/day Sal @ 1000 ppm Ph-7
06:00 WHFP--10949 kpa SICP--5 kpa Gas rate @ 428.759 decs/day Sal @ 1000 ppm Ph-7
Making an average of 5.5 m3 per/hr. Total fluid in 6 hrs. @ 32.58
Will flow at this rate till 12:00 P.M. then switch to larger choke size. (50.8mm)
08:00 WHFP--10977 kpa SICP--5 kpa Gas rate @ 430.144 decs/day Sal @ 1000 ppm Ph-7
10:00 WHFP--10984 kpa SICP--5 kpa Gas rate @ 434.509 decs/day Sal @ 1000 ppm Ph-7
12:00 WHFP--10963 kpa SICP--5 kpa Gas rate @ 434.975 decs/day Sal @ 1000 ppm Ph7
Change out choke. Flow through a 50mm. Orrifice plate @ 76.2mm
Made m3 in 12 hrs. Average @ m3/hr.
14:00 WHFP--10687 kpa SICP--5 kpa Gas rate @ 466.748 decs/day Sal @ 1000 ppm Ph-7
15:30 WHFP--9660 kpa Tester forgot to open back pressure valve. Rate & pressure change, because we are wide open.
16:00 WHFP--9674 kpa SICP--5 kpa Gas rate @ 552.682 decs/day Sal @ 1000 ppm Ph-7
18:00 WHFP--9660 kpa SICP--5 kpa Gas rate @ 556.088 decs/day Sal @ 1000 ppm Ph-7 H2s @ 0 ppm.
20:00 WHFP--9639 kpa SICP--5 kpa Gas rate @ 555.962 decs/day Sal @ 11000 ppm Ph-7 H2s @ 0 ppm
22:00 WHFP--9646 kpa SICP--5 kpa Gas rate @ 558.479 decs/day Sal @ 10000 ppm Ph-7
24:00 WHFP--9669 kpa SICP--5 kpa Gas rate @ 559.672 decs/day Sal @ 10000 ppm Ph-7

Total fluid = 1407 m3
Fluid last 24 hrs= 123.74m3
Average fluid rate @ 5m3/hr.
Fluid temp @ 40 C
H2s @ 0 ppm

Weather/Temp:	Cloudy -20	**Roads Conditions:**	good	**Safety Co.:**	Iroc Safety
Service Rig:		**Rig Manager:**		**Mobile:**	
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			**Date:**	March 29/2002	**Day:**	16
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$646,439	**Daily Cost:** $14,083	**Cum Cost:** $660,522

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	1994.04
#2				
#3				
Tubing out		**Tubing in well**		**1994.04**

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		123.43
Total Fluid Recovered To Date		1348.96
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services (Supervision)	$1,000
Beaver Camp	$3,030
Artic Energy Systems (Testers)	$3,000
Pesklevis Holdings (Water Truck)	$800
Pro-North Trucking (tank truck for water disposal	$1,878
Be-Safe (H2S)	$1,200
Total Production rentals (400 bbl tank)	$50
Iroc Safety (1 st Aid)	$625
Alpine Environmental	$2,500

Zones of Interest:	Name:	Slave Point	Perforations: Open Hole 2024--2078	mKB.
	Name:		Perforations:	mKB.
	Name:		Perforations:	mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Flow test well and evaluate.

From — Detailed Description of Previous Day's Operation

00:00 Continue to flow test well. Change choke size to 12.7mm from 9.53mm. Salinity is rising. H2s is still @ 0 ppm. Plans are to flow test for 5-6 days. Changing choke size to a max. of 55mm (As big as we can go) Water flow intake rate will conitnue to rise as the choke size increase's.
WHFP--13900 kpa SICP--5 kpa
02:00 WHFP--12170 kpa SICP--5 kpa Gas rate @ 176.489 decs/day Sal @ 4000 ppm Ph-7
04:00 WHFP--12170 kpa SICP--5 kpa Gas rate @ 177.074 decs/day Sal @ 1000 ppm Ph-7
06:00 WHFP--12170 kpa SICP--5 kpa Gas rate @ 182.223 decs/day Sal @ 3000 ppm Ph-7 Made 24.54 m3 water in 6 hrs. Averaging 4m3 / hr. Total gas flared since started testing @ 753 decs. Total fluid as to date @ 1249.77 m3.
08:00 WHFP--12238 kpa SICP--5 kpa Gas rate @ 183.658 decs/day Sal @ 1000 ppm Ph-7
10:00 WHFP--12301 kpa SICP--5 kpa Gas rate @ 184.882 decs/day Sal @ 1000 ppm Ph-7 Traces of sand.
12:00 WHFP--12301 kpa SICP--5 kpa Gas rate @ 185.839 decs/day Sal @ 1000 ppm Ph-7 Total fluid made= 56.61 m3 since start of second test. Made 23.94 m3 in 12 hrs. H2s @ 0 ppm. Increase choke size to 19.05mm for next 12/hrs.
14:00 WHFP--11239 kpa SICP--5 kpa Gas rate @ 292.164 decs/day Sal @ 1000 ppm Ph-7
16:00 WHFP--11432 kpa SICP--5 kpa Gas rate @ 319.316 decs/day Sal @ 1000 ppm Ph-7
18:00 WHFP--11487 kpa SICP--5 kpa Gas rate @ 327.798 decs/day Sal @ 1000 ppm Ph-7 Total fluid @ 98.94m3 Average fluid return @ 6m3 / hr.
20:00 WHFP--11528 kpa SICP--5 kpa Gas rate @ 335.221 decs/day Sal @ 1000 ppm Ph-7
22:00 WHFP--11542 kpa SICP--5 kpa Gas rate @ 344.398 decs/day Sal @ 1000 ppm Ph-7
24:00 WHFP--11508 kpa SICP--5 kpa Gas rate @ 346.462 decs/day Sal @ 1000 ppm Ph-7

Total fluid in 24 / hrs 123.43 m3
1st 12 hrs average return @ .29 m3 / hr.
2nd 12 hrs average return @ 2.5 m3 / hr.
Average flowing temp. = 36 Degrees
Total gas accumulated to date @ 958 decs

Weather/Temp:	Cloudy -20	**Roads Conditions:**	good	**Safety Co.:**	Iroc. Safety
Service Rig:		**Rig Manager:**		**Mobile:**	
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	C0/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			**Date:**	March 28/2002	**Day:**	15
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$616,485	**Daily Cost:** $29,954	**Cum Cost:** $646,439

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	1994.04
#2				
#3				
Tubing out		**Tubing in well**		**1994.04**

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		8.13
Total Fluid Recovered To Date		1225.53
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services (Supervision)	$1,000
Beaver Camp	$3,030
Artic Energy Systems (Testers)	$3,000
Pesklevis Holdings (Water Truck)	$800
Rapid Wireline	$3,920
Thenaago Development (Construction Costs)	$11,818
Be-Safe (H2S)	$1,205
Total Production rentals (400 bbl tank)	$50
Iroc Safety (1 st Aid)	$625
Alpine Environmental	$4,506

Zones of Interest:	Name: Slave Point	Perforations: Open Hole 2024--2078	mKB.
	Name:	Perforations:	mKB.
	Name:	Perforations:	mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Monitor shut-in wellhead pressures

From — **Detailed Description of Previous Day's Operation**

00:00 Continue to monitor wellhead pressure.
SITP--14400 kpa SICP--5 kpa
02:00 SITP--14400 kpa SICP--5 kpa
03:00 SITP--14500 kpa Small increase. SICP--5 kpa
04:00 SITP-- 14500 kpa SICP--5 kpa
06:00 SITP--14500 kpa SICP--5 kpa
08:00 SITP--14500 kpa SICP--5 kpa
10:00 SITP--14500 kpa SICP--5 kpa
12:00 SITP--14500 kpa SICP--5 kpa Open well to test vessel. Start test on a 9.53mm solid bean choke. 76.20 Orrifice Plate.
12:15 WHFP--13400 kpa SICP--5 kpa No gas rate, to unstable.
12:30 WHFP--13400 kpa SICP--5 kpa
12:45 WHFP--13400 kpa SICP--5 kpa
13:00 WHFP--13400 kpa SICP--5 kpa Meter run in service. Made 2.25 m3 in 1 hr. Sal @ 2000 ppm Ph-7
13:15 WHFP--13500 kpa SICP--5 kpa Gas rate @ 141.963. decs/day.
13:30 WHFP--14000 kpa SICP--5 kpa Gas rate @ 177.423 decs/day
14:00 WHFP--13800 kpa SICP--5 kpa Gas rate @ 178.570 decs/day Sal @ 1000 ppm Ph-7
16:00 WHFP--13800 kpa SICP--5 kpa Gas rate @ 158.990 decs/day Sal @ 1000 ppm Ph-7
18:00 WHFP--13700 kpa SICP--5 kpa Gas rate @ 141.053 decs/day Made 4.91 m3 fluid. (Averaging ..58m3/hr.)
20:00 WHFP--13900 kpa SICP--5 kpa Gas rate @ 156.427 decs/day Sal @ 6000 ppm ph-7
22:00 WHFP--13400 kpa SICP--5 kpa Gas rate @ 135.130 decs/day Sal @ 7000 ppm Ph-7
24:00 WHFP--13900 kpa SICP--5 kpa Gas rate @ 163.790 decs/day Sal @ 9000 ppm Ph-7
Change out choke size for a 12.7mm, will flow on this choke for 12 hrs. Orrifice plate still the same @ 76.20mm.
Made 8.13 m3 water in 12 hrs. Average .5 m3/hr.
Salinity has been slowly rising, also the chlorides in water are also rising. According to Alpine they can still treat fluid, to be able to pump off & dispose of.

H2s content @ 0 ppm.

Weather/Temp:	Cloudy & snowing -16	**Roads Conditions:**	good	**Safety Co.:**	Iroc. Safety
Service Rig:		**Rig Manager:**		**Mobile:**	
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			**Date:**	March 27/2002	**Day:**	14
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$595,661	**Daily Cost:** $20,824	**Cum Cost:** $616,485

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	1994.04
#2				
#3				
Tubing out		**Tubing in well**		**1994.04**

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		132.56
Total Fluid Recovered To Date		1217.10
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services (Supervision)	$1,000
Beaver Camp	$3,030
Artic Energy Systems (Testers)	$3,000
Pesklevis Holdings (Water Truck)	$800
Ft. Nelson Hotshot	$840
Peace Hotshot Services	$2,092
Liard Fuel Centre	$1,775
Total Production rentals (400 bbl tank)	$50
Iroc Safety (1st Aid) Bee-Safe (H2s)	$2,213
Alpine Environmental	$6,024

Zones of Interest:	Name: Slave Point	Perforations: Open Hole 2024--2078	mKB.
	Name:	Perforations:	mKB.
	Name:	Perforations:	mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Flow test well.

From **Detailed Description of Previous Day's Operation**

Continue to flow well on 50.80mm choke & 69.85mm orrifice plate.
Traces of sand (.5%)
00:00 WHFP--9650 kpa SICP--5 kpa Gas rate @ 409.177 decs/day Sal @ 5000 ppm Ph-7
02:00 WHFP--9700 kpa SICP--5 kpa Gas rate @ 411.060 decs/day Sal @ 2000 ppm Ph-7
04:00 WHFP--9900 kpa SICP--5 kpa Well shut-in for testers to fix orrifice plate.
04:30 WHFP--9900 kpa SICP--5 kpa Gas rate @ 437.021 decs/day Sal @ 3000 ppm Ph-7
06:00 WHFP--9900 kpa SICP--5 kpa Gas rate @ 447.161 decs/day Sal @ 3000 ppm Ph-7 Total fluid @ 1152.57 m3.
Total accum gas @ 521.677 decs flared.
08:00 WHFP--9900 kpa SICP--5 kpa Gas rate @ 460.847 decs/day Sal @ 3000 ppm Ph-7 Averaging 10 m3/hr. H20
10:00 WHFP--9850 kpa SICp--5 kpa Gas rate @ 471.400 decs/day Sal @ 3000 ppm Ph-7
10:30 Rapid Wireline arrived. Spot units. Partial rig up.
12:00 WHFP--9750 kpa SICP--5 kpa Gas rate @ 470.558 decs/day Sal @ 3000 ppm Ph-7
Shut-in well at surface. Rig in Rapid Wireline to Rih with Tandem Cal-Scan Static-gradient bottom hole recorders. Set @ 10 second readings for 24 hrs, then every 30 sec for 90 days.
12:10 SITP--13300 kpa 12:15 SITP--13425 kpa 12:20 SITP--13515 kpa 12:25 SITP--13674 kpa 12:30 SITP--13690 kpa 12:45 SITP--13857 kpa
13:00 SITP--14100 kpa Recorders landed in re-entry guide @2017.mkb.Dead weight pressure prior to landing gauges @13793kpa
13:15 SITP--14123 kpa
13:30 SITP--14300 kpa SICP--5 kpa
15:00 SITP--14400 kpa
18:00 SITP--14400 kpa
20:00 SITP--14400 kpa
22:00 SITP--14400 kpa
24:00 SITP--14400 kpa SICP--5 kpa.

Weather/Temp:	Cloudy & Snowing -12	**Roads Conditions:**	good	**Safety Co.:**	Iroc. Safety
Service Rig:		**Rig Manager:**		**Mobile:**	
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			**Date:**	March 25/2002	**Day:**	12
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$478,836	**Daily Cost:** $61,093	**Cum Cost:** $539,929

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	1994.04
#2				
#3				
Tubing out		Tubing in well		1994.04

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		370.03
Total Fluid Recovered To Date		692.30
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services (Supervision)	$1,000
Beaver Camp	$3,030
Artic Energy Systems (Testers)	$3,000
Pesklevis Holdings (Water Truck)	$800
Schlumberger (Standby-Ctu, N2 & Pump Truck)	$23,682
Schlumberger (28% Acid & additives.)	$25,386
R.L.V. Holdings (Sleeper Rentals)	$3,520
Total Production rentals (400 bbl tank)	$50
Iroc safety (1st Aid)	$625

Zones of Interest:				
	Name:	Slave Point	Perforations:	Open Hole 2024--2078 mKB.
	Name:		Perforations:	mKB.
	Name:		Perforations:	mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Flow test well.

From — Detailed Description of Previous Day's Operation

Continue to flow test well on 12.7mm choke. 50.8mm orifice plate.

00:00 WHFP--@ 4700 kpa SICP--vac. Gas rate @ 24.9 decs/day Sal @ 0 ppm PH-7 322 m3 made.
02:00 WHFP--@ 4725 kpa SICP--vac Gas rate @ 25.5 decs/day Sal @ 0 ppm PH-7 345 m3 made
04:00 WHFP--@ 4800 kpa SICP--vac Gas rate @ 26.8 decs/day Sal @ 0 ppm PH-7 367 m3 made
06:00 WHFP--@ 4850 kpa SICP--vac Gas rate @ 26.4 decs/day Sal @ 0 ppm Ph-7 390.45 m3 made
08:00 WHFP--@ 5200 kpa SICP--vac Gas rate @ 27.3 decs/day Sal @ 0 ppm Ph-7 411.56 m3 H20 made so far.

Note: Sent Schlumberger crew that were staying in Ft.Nelson home. (Standby) Have ordered Alpin Environmental crew to arrange for testing of water & treating on loc. Tested water in portable lab in Ft. Liard and found that it can be treated on location and disposed of. Construction to build 3 pits on loc. This way we can fill and dispose of water 1 pit @ a time.

10:00 WHFP--@ 5200 kpa SICP--vac Gas rate @ 27.8 decs/day Sal @ 0 ppm PH-7 434. m3 H2o made.
12:00 WHFP--@ 5400 kpa SICP--vac Gas rate @ 28.4 decs/day Sal @ 0 ppm Ph-7 H2s @ 0% 456.65 m3 H2o made.
13:00 WHFP--@ 5500 kpa Change out choke to 25mm from 12.7mm to see what fluid & gas rate we can get.
13:15 WHFP--@ 2700 kpa SICP--vac. Gas rate @ 48.9 decs/day Sal @ 0 ppm PH-7 made 8.75 m3 in .5/hr.
14:00 WHFP--@ 3000 kpa SICP--Vac Gas rate @ 60.3 decs/day Sal @ 0 ppm Ph-7 total 489.99 m3
14:15 WHFP--@ 3000 kpa SICP--Vac Gas rate @ 60.5 decs/day Sal @ 0 ppm Ph-7 made 21 m3/hr.
16:00 WHFP--@ 5800 kpa SICP--5 Gas rate @ 40.1 decs.day Sal @ 0 ppm Ph-7 made 518.83 m3 total
Alpin Environmental portable lab people have arrived. Take soil samples.
16:30 Increase choke size to 19.05mm.
18:00 WHFP--@ 6000 kpa SICP--5 Gas rate @ 102 decs/day Sal @ 0 ppm Ph-7 Total 553.51 m3
18:30 Increase choke size to 50.8mm WHFP--@ 2900 kpa 125.4 decs/day. Sal @ 0 ppm Ph-7
20:00 WHFP--@ 7200 kpa SICP--5 Gas rate @ 173.940 decs/day Sal @ 0 ppm Ph-7 Total 601.64 m3 made.
22:00 WHFP--@ 7800 kpa SICP--5 Gas rate @ 217.369 decs/day Sal @ 0 ppm Ph-7 Total 648.67 m3 total made.
24:00 WHFP--@ 8200 kpa SICP--5 Gas rate @ 263.477 decs/day Sal @ 0 ppm Ph-7 Total 692.05 m3 total made.

Average 20 m3 / hr. Made 370 m3 in 24 hrs.

Weather/Temp:	Clear -23	**Roads Conditions:**	good	**Safety Co.:**	Iroc Safety
Service Rig:		**Rig Manager:**		**Mobile:**	
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			**Date:**	March 24/2002	**Day:**	11
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$457,926	**Daily Cost:** $20,910	**Cum Cost:** $478,836

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	1994.04
#2				
#3				
Tubing out		**Tubing in well**		**1994.04**

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		260.00
Total Fluid Recovered To Date		322.00
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services (Supervision)	$1,000
Beaver Camp	$3,030
Artic Energy Systems (Testers)	$3,000
Pesklevis Holdings (Water Truck)	$800
Formula (Haul tank to loc.)	$2,835
Streeper (Tank Rental)	$3,600
Pro-North Trucking	$1,755
Total Production rentals (400 bbl tank)	$50
Iroc safety (1st Aid)	$625
Husky Transport (Haul acid to loc.)	$4,215

Zones of Interest:	Name:	Slave Point	Perforations:	Open Hole 2024--2078 mKB.
	Name:		Perforations:	mKB.
	Name:		Perforations:	mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Flow test well.

From — Detailed Description of Previous Day's Operation

00:00 Continue to flow test well. Making approx. 9 m3 of water per/hr. Flow through 12.7mm choke & 50mm orrifice plate. WHFP--@ 4000 kpa. Casing on Vac.

06:00 WHFP--@ 4200 kpa SICP--vac. 17 decs. Salinity @ 2000 ppm Ph-7 Made 124 m3 fresh water in 12.5 hrs. flowing.

12:00 WHFP--@ 4000 kpa SICP--Vac. 20.7 decs/day Sal @ 2000 ppm PH-7 Made 188 m3 H2O

14:00 WHFP--@ 4100 kpa SICP--vac gas rate @ 21 decs/day Sal @ 2000 ppm PH-7 Made 209 m3 H20 so far.

16:00 WHFP--@ 4300 kpa SICP--vac. gas rate @ 21 decs/day Sal. @ 0 ppm PH-7 Made 232 m3 H2o so far.

18:00 WHFP--@ 4600 kpa SICP--vac. gas rate @ 22.5 decs/day Sal @ 0 PH-7 Total 254.67 m3 H2o made.

20:00 WHFP--@ 4600 kpa SICP--vac. Gas rate @ 24.69 decs/day Sal @ 0 ppm Ph-7 Total 276.85 m3 made

22:00 WHFP--@ 4625 kpa SICP--vac Gas rate @ 24.3 decs/day Sal @ 0 ppm PH-7 Total 299.74 m3 made

24:00 WHFP--@ 4675 kpa SICP--vac Gas rate @ 24.9 decs/day Sal @ 0 ppm Ph-7 Total 322 m3 made (made 260 in 24 hrs.) averaging 10-12 m3 / hr.

Weather/Temp:	Cloudy & Snowing-10	**Roads Conditions:**	good	**Safety Co.:**	Iroc Safety
Service Rig:		**Rig Manager:**		**Mobile:**	
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-60 Northwest Territories			**Date:**	March 23/2002	**Day:**	10
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$439,342	**Daily Cost:** $18,584	**Cum Cost:** $457,926

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	38.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	1994.04
#2				
#3				
Tubing out		**Tubing in well**		**1994.04**

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		61.80
Total Fluid Recovered To Date		61.80
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services (Supervision)	$1,000
Beaver Camp	$3,030
Artic Energy Systems (Testers)	$3,000
Pesklevis Holdings (Water Truck)	$800
Rapid Wireline	$6,231
Neufeld Propane (Tank skid rental)	$393
Neufeld Propane (Propane)	$3,455
Total Production rentals (400 bbl tank)	$50
Iroc safety (1st Aid)	$625

Zones of Interest:	Name:	Slave Point	Perforations:	Open Hole 2024--2078	mKB.
	Name:		Perforations:		mKB.
	Name:		Perforations:		mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Rig in test equipment. Wait on Rapid Wireline

From — Detailed Description of Previous Day's Operation

08:00 Rig in test equipment. Waiting on Rapid wireline to arrive.
13:00 Rapid Wireline has finally arrived. Spot line unit & picker.
Hold safety meeting.
Rig up line unit & lubricator.
RIH with pulling tool to pull pronge & WR Plug. Plug pulled, well was on vac. Opened wing valve & tbg equalized.
Rih with tool string to confirm depth. Got to 2070 mkb. Must be fill from when rig cleaned out all the rig tanks. (Drilling Consultant's plan).
Pooh. No flow from well. Fluid level @ approx 220 mkb.
Rig up & run in hole with 89mm swab cup to pull swabs.
Pulled 5 swabs & brought fluid level up, well started to unload. Made 14 m3 in approx. .5 hr.
Rih with Tandem Cal-Scan Static Gradient tools. Perform gradient from bottom mid-point up, stopping every 500 m.
Bottom hole pressure is 17 mpa. Temp @ 80 C.
Rig out wireline unit.
18:30 Open well to testers. Flow on 12.7mm choke to clean-up.
24:00 Well has been flowing @ approx. 4000 kpa. Producing an average of 9 m3 water per / hr. Salinaty @ 2000 ppm Ph-7

Weather/Temp:	Cloudy -16	**Roads Conditions:**	good	**Safety Co.:**	Iroc. Safety
Service Rig:		**Rig Manager:**		**Mobile:**	
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Nella A-68 Northwest Territories			**Date:**	March 22/2002	**Day:**	9
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$428,837	**Daily Cost:** $10,505	**Cum Cost:** $439,342

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	1994.04
#2				
#3				
Tubing out		**Tubing in well**		**1994.04**

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		
Total Fluid Recovered To Date		
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services.	$1,000
Beaver Camp	$3,030
Artic Energy Systems (Testers)	$4,000
Pesklevis Holdings (Water Truck)	$800
Husky Tank Rentals (2-400 bbl tanks)	$1,000
Total Production rentals (400 bbl tank)	$50
Iroc safety (1st Aid)	$625

Zones of Interest:	Name:	Slave Point	Perforations: Open Hole 2024--2078	mKB.
	Name:		Perforations:	mKB.
	Name:		Perforations:	mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Tear out drilling rig.

From — **Detailed Description of Previous Day's Operation**

06:30 Trucks are all here to haul rig out. (Twylight Trucking units arrived last night. Brought test equipment & 2-400 bbl tanks with them from FSJ.)
Begin to rig out & move drilling rig.
Rig has all been moved out.
H.L. Powell crew here to rig out most of matting. Redde pressure testing steamer here to wash off.
Have construction smooth out wellhead area & rest of lease area where we will spot test equipment.
Spot 400 bbl tanks & testers office building.
17:00 Testers arrived.
Skid line heater & test vessel into place.
Spot 60' flare stack in corner of loc.
Also testers brought 4" flare line with them.
20:00 SDFN.
Rapid Wireline to arrive on loc in A.M. to pull WR plug. Begin flow test.

Weather/Temp:	Clear -20	**Roads Conditions:**	good	**Safety Co.:**	Iroc. Safety
Service Rig:	Akita # 55	**Rig Manager:**	Tony Erwin	**Mobile:**	1-780-910-9102
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			**Date:**	March 21/2002	**Day:**	8
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$391,578	**Daily Cost:** $37,259	**Cum Cost:** $428,837

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	1994.04
#2				
#3				
Tubing out		**Tubing in well**		**1994.04**

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		
Total Fluid Recovered To Date		
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services.	$1,000
Beaver Camp	$3,030
Cameron	$13,920
Peskievis Holdings (Water Truck)	$7,790
Liard Fuel Service	$2,477
T & C Rentals (Rig phones)	$428
Redneck Oilfield Services (Vac truck)	$7,939
Total Production rentals (400 bbl tank)	$50
Iroc safety (1st Aid)	$625

Zones of Interest:				
	Name:	Slave Point	Perforations:	Open Hole 2024--2078 mKB.
	Name:		Perforations:	mKB.
	Name:		Perforations:	mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Tear out drilling rig.

From — **Detailed Description of Previous Day's Operation**

Rig out Drilling rig.
Line up services for completion.
Rig move trucking company (Twylight Trucking--Grande Prairie) will pick up Artic Energy Test equipment from Hart Highway trucking yard in Ft. St. John.
Also stop & pick up 2--400 bbl tanks from Husky in FSJ.
Called Rapid wireline to be on loc saturday morning to pull WR plug in top of Halliburton Packer @ 2001 mkb.
Rig has been torn down, waiting to move.
Release vac truck.

Weather/Temp:	Clear -20	**Roads Conditions:**	good	**Safety Co.:**	Iroc. Safety
Service Rig:	Akita # 55	**Rig Manager:**	Tony Erwin	**Mobile:**	1-780-910-9102
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Nella A-68 Northwest Territories			**Date:**	March 20/2002	**Day:**	7
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$184,164	**Daily Cost:** $207,414	**Cum Cost:** $391,578

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	1994.04
#2				
#3				
Tubing out		**Tubing in well**		**1994.04**

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		
Total Fluid Recovered To Date		
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services.	$1,000
IPS Wireline	$23,027
Premium Inspections (89mm tbg)	$55,100
Weatherford Completions	$28,685
Discovery Services (Thread washer)	$13,712
Hills Casing Service (Power tongs)	$33,465
Akita Drilling (and all other charges)	$20,000
Total Production rentals (400 bbl tank)	$50
Iroc safety (1st Aid)	$625
Tanktruck(Rowes,Energetic,Ditner,Giesbrect)	$31,750

Zones of Interest:	Name:	Slave Point	Perforations:	Open Hole 2024–2078	mKB.
	Name:		Perforations:		mKB.
	Name:		Perforations:		mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Rih with 89mm tbg string.

From — Detailed Description of Previous Day's Operation

00:00 Rig in wireline. Hold safety meeting with all personal. Pressure test lubricator to 7000 kpa.
Rih with 155mm gauge ring to tag packer top. Tagged packer top @ 2011.1 mkb. Pooh with wireline.

02:00 Pick up & Rih with Halliburton Packer and tail pipe as follows:
1–177.8mm halliburton BWC Permanent Production Packer c/w 58.75mm "X" Profile in top. (AFLAS Elements. Impreglon coated in & out.)
1–73mm x 3m EUE L-80 9.67 kg/m Pup Jt. (Impreglon coated)
1–73mm x 58.75mm Otis "X" Profile Nipple (Impreglon coated)
1–73mm x 3m EUE L-80 9.67 kg/m Perforated Pup Jt. (Impreglon coated)
1–73mm x 3m EUE L-80 9.67 kg/m Pup Jt. (Impreglon coated)
1–139.7mm x 73mm Overshot.

03:15 On bottom tag top of last packer. Pull up to string weight to have overshot ontop of stick-up of Cardium Packer. Set packer @ CE 2000.57 mkb. Set with 150 lbs. compression on tail joint. Noticed some jaying action, as though overshot slipped over packer sub. Pooh.

03:45 On surface with running tools. Rig down lubricator & wireline unit.

04:00 Fill casing & pressure test packer to 17000 kpa for 10 min. (Good test)

04:30 Pick-up overshot for on-off tool. Install in bottom of tbg joint & start Rih with 89mm 13.69 kg/m L-80 tbg with NS-Ct threads. Drift & tally all tbg as run in. Also wash & inspect all threads & collars.

11:30 All tbg Rih. Land on-off connector on slick joint of packer. Mark & measure space out. Pull up & bury pups. Install dog nut & land. Pressure test annulus to 14 mpa. (All rig can get) for 10 min. (Good test)
Unseat on-off and pull up. Remove dognut to get stand pipe low enough to circulate.
Circulate well over to inhibited H2o. Half way through circulation, pump 1 m3 of diesel fuel, will migrate up.(30 m3 Total)
Re-install dognut and land with seal assembly on-off. Pressure test annulus again to 14 mpa (Good test)

15:30 Cameron hand to install BPV (2 way) in dognut. Rig to start tearing down BOPs & rig.

21:30 Wellhead has been installed. Pressure tested seals to 21 mpa. (Good test) Pull BPV out of dognut. Rig to continue to dismantle. Planned move is in 2 days.

Note: 20 jts 89mm left over (2 NFG, 1 suspect & 17 good) Return to Premium yard in FSJ.
Also all rental equipment: slips, elevators, drifts & x-overs returned to respectable owners.

Weather/Temp:	Clear -30	**Roads Conditions:**	good	**Safety Co.:**	Iroc Safety
Service Rig:	Akita # 55	**Rig Manager:**	Tony Erwin	**Mobile:**	1-780-910-9102
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			**Date:**	March 19 /2002	**Day:**	6
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$157,483	**Daily Cost:** $26,681	**Cum Cost:** $184,164

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	2189.17
#2				
#3				
Tubing out		**Tubing in well**		**2189.17**

DAILY FLUID BREAKDOWN		
Fluid Vol. M^3	**Oil**	**Water**
Total Fluid Pumped		
Recovered Last 24 Hours		
Total Fluid Recovered To Date		
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN	
Services	**Amount**
Total Production Services.	$1,000
Baker Hughs Intec (Fishing hand)	$5,006
Akita Drilling (and all other charges)	$20,000
Total Production rentals (400 bbl tank)	$50
Iroc safety (1st Aid)	$625

Zones of Interest:	Name:	Slave Point	Perforations:	Open Hole 2024--2078	mKB.
	Name:		Perforations:		mKB.
	Name:		Perforations:		mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Killing well & trying to pull tbg string from well.

From — **Detailed Description of Previous Day's Operation**

00:00 Continue to Rih with 89mm tbg. & grapple to latch onto packer.

01:30 At depth 2012 mkb. Set down ontop of packer with overshot grapple. Set down 10 dans. Pull up to string weight. Set down again to make sure we are securely set. Pull-up. Did not show any overpull. Went to string weight & thats all. Try set down numerous times. But still doesn't show any sign of pulling over. Rotate to the right to try & get down ontop of slick joint. Still cannot get on. Pooh.

05:00 Called Baker Oil Tools. Realized that the catch in grapple is the wrong one. Sent out one that is too small. Order a Fishing hand to loc. with more grapples, spear and any other fishing equipment we may need.

10:00 On surface with over-shot. We can see where the top connection of the packer was rotating on the catch of the grapple. Obviously the catch is one size to small. (We were told and verified by Weatherford, Cardium & Baker personal on call that this is the right catch (5 7/8" O.D. Short catch x 3 21/32" I.D.) that needs to be run to retrieve the top part of packer fish. After we are out of hole, it has been acknowledged that the fish neck is bigger because being that this is a wireline packer the top portion has been changed to accomodate the running tools for wireline.)

10:30 Baker fishing hand has arrived. Change out catch in grapple in overshot of fish (4" I.D.)

10:45 Rih with overshot & tbg.

16:00 At depth with overshot. Set down to latch on. We had a hold of it once & pulled up. Pulled over string weight to verify. Someone suggested to set down again to make sure we had a good bite. When we pulled back up it had slipped off. Because catch will let good. Worked up & down again. Managed to latch on again & the same thing happened. After that it would just slip off, because the catch must be worn.

17:15 Pooh with tbg.

20:30 On surface with tbg. No packer. Rig off overshot. Lay down tbg joint. Rig in wireline unit.

24:00 Continue to rig in wireline unit.

Weather/Temp:	Clear -30	**Roads Conditions:**	good	**Safety Co.:**	Iroc. Safety
Service Rig:	Akita # 55	**Rig Manager:**	Tony Erwin	**Mobile:**	1-780-910-9102
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			**Date:**	March 18/2002	**Day:**	5
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$117,801	**Daily Cost:** $39,682	**Cum Cost:** $157,483

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	2189.17
#2				
#3				
Tubing out		**Tubing in well**		**2189.17**

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		
Total Fluid Recovered To Date		
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services.	$1,000
Cardium Oil Tools	
Cat Rentals (light tower & fuel tank.)	$3,500
Liard Fuel Service (Gas & Diesel)	$6,795
Beckers Hot Shot	$1,712
Discovery Services (Thread inspection)	
Akita Drilling (and all other charges)	$26,000
Total Production rentals (400 bbl tank)	$50
Iroc safety (1st Aid)	$625
Premium Oilfield Inspection Services	

Zones of Interest:	Name: Slave Point	Perforations: Open Hole 2024--2078	mKB.
	Name:	Perforations:	mKB.
	Name:	Perforations:	mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Killing well & trying to pull tbg string from well.

From — Detailed Description of Previous Day's Operation

00:00 Continue to pump water as we stock pile it and pull tbg from well.
07:00 Managed to pull 72 jts from well during the night. Have to shut down for now because we may become pipe light.
Wait on tank trucks to arrive from FSJ to hauls water so we can have enough water to finish pulling out.
08:00 Have rig crew hook manifold shack back up with flow line.. Pressure tested to 9500 kpa (Good test)
11:00 Hotshot has arrived with Halliburton Permanent Packer, tail pipe & nipples, Inhibitor, Varsol & overshot.
12:00 Tank trucks have arrived. Start to haul water to fill all tanks before Pooh with tbg.
14:30 Have all tanks full of H2O. Have been pumping for a while. Well is dead. Open annular bag. Start Pooh with tbg.
(Pulling wet)
16:00 Pulled out 134 jts so far.
18:00 All tbg pulled. Did not get packer. Slick joint from overshot is in the bottom of the on-off. There is a rag stuck inbetween the slick joint & overshot. Also there is a spacer ring jambed on the end. (Cardium Hand took pictures).
Rig up to Rih with Baker 5 7/8 O.D. Short Catch Overshot with a 3 21/32 Catch (Basket Grapple)
17:45 Rih with overshot grapple & tbg.
24:00 Continue to Rih with tbg.

Weather/Temp:	Clear -30	**Roads Conditions:**	good	**Safety Co.:**	Iroc Safety
Service Rig:	Akita # 55	**Rig Manager:**	Tony Erwin	**Mobile:**	1-780-910-9102
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			**Date:**	March 17/2002	**Day:**	4
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$83,174	**Daily Cost:** $34,627	**Cum Cost:** $117,801

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	2189.17
#2				
#3				
Tubing out		Tubing in well		2189.17

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		
Total Fluid Recovered To Date		
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services.	$1,000
Cardium Oil Tools	
Cooper Cameron	
Hills Casing Service	$9,389
EZ Lay Pipe handlers	
Discovery Services (Thread inspection)	
Akita Drilling (and all other charges)	$23,563
Total Production rentals (400 bbl tank)	$50
Iroc safety (1st Aid)	$625
Premium Oilfield Inspection Services	

Zones of Interest:	Name: Slave Point	Perforations: Open Hole 2024--2078	mKB.
	Name:	Perforations:	mKB.
	Name:	Perforations:	mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Rih withCardium production Packer & tail pipe on wireline.

From — Detailed Description of Previous Day's Operation

00:00 Finished laying down drill pipe. Rih with a joint of drill pipe & pull wear bushing. Set slip half of dognut hanger in tbg spool. Rig in Hill's power tongs & Discovery thread wash unit.

03:00 Hold sfatey meeting with all personal.

03:15 Pick up Cardium Overshot for on-off connector. Install in bottom joint. Start pick up all tbg with lay-down machine.

03:30 Set torgue on tongs (21 mpa). Thread wash unit tested & ready.

03:45 Start Rih with 89mm NSCT-L-80 13.69 kg/m tbg. All tbg tallied & counted before run in. Drift all tbg & pups as run in.

14:00 All tbg run in. At depth 2012. Land on-off connector. Space out tbg. Set down 6000 daNs compression.
Pulled over to check packer set with 6000 dans.
Tried to rotate to the left and come off-on -on connector but could not. Tried quite a few times pulling up & down while turning pipe to the left to come off but still could not. After approx .5 hr of this the tbg came free. we figured that we had come of the packer. Measure for additional pups.
Pull up 2 jts. Bury pups 1 jt down. Install dognut. Rih with landing joint, leaving tail pipe just above on-off.
Went to circulate well over to inhibited fluid. But when we tried to pump down the tbg it pressured up right away. Could not figure this out. Thought maybe we were froze, but thawed things out but that was not the problem. Pulled up and removed dognut. Went back down and tried to screw back into packer. (thought maybe we unscrewed slick joint from inside of packer) Tried quite a few times at this rotating to the right. Torqued up so we though we may have it. Pulled up but had no over pull. After many failed attempts of trying to get into packer it was decided to pull tbg from well. Also well annulus started to kick after a while when we were trying to sting back in. Cannot keep up with fluid trucking. Have ordered more trucks from FSJ. Ordered another packer, wireline truck & fishing tools from town.

24:00 Wait on water trucks. Pump fluid as needed while waiting. Also try to pull a few stands every once in a while when water has been stock piled.

Note: When we pulled into packer and then tried to come off, packer was pulled tested to max. 40000 daNs at one time. Also took weight every time. So we're convinced packer is still set. But can deffinitly pump past it.
Tbg. was open to atmosphere all the time we were attempting to set back in packer, so we know tbg had the plug in it.
Also there is the possibility that the packer has been unset, when we first tried to come off the on-off connector. It only takes a quarter turn to the right & pull-up to unset the packer.

Weather/Temp:	Clear -6	**Roads Conditions:**	good	**Safety Co.:**	Iroc. Safety
Service Rig:	Akita # 55	**Rig Manager:**	Tony Erwin	**Mobile:**	1-780-910-9102
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			**Date:**	March 16/2002	**Day:**	3
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$4,282	**Daily Cost:**	$78,892	**Cum Cost:**	$83,174

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1	89mm	13.69kg/m	L-80	2189.17
#2				
#3				
Tubing out		**Tubing in well**		**2189.17**

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		
Total Fluid Recovered To Date		
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services.	$1,000
IPS Wireline	$39,355
Hess Oilfield Services	$360
Baker Oil Tools (Inhibiter)	$1,622
Cooper Cameron (Wellhead Equipment)	$36,555

Zones of Interest:	Name:	Slave Point	Perforations:	Open Hole 2024--2078	mKB.
	Name:		Perforations:		mKB.
	Name:		Perforations:		mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Rih withCardium production Packer & tail pipe on wireline.

From — **Detailed Description of Previous Day's Operation**

00:00 Continue to Pooh with drill pipe.
01:30 All drill pipe pulled.
02:00 Rig up IPS wireline lubricator.
Hold safety meeting.
Rih with 155mm gauge ring on CCL.
Tagged up at 1969 mkb. When pulled up got stuck. Worked line back & forth and mangaed to come free. Pulled a collar log for 100m. Corelate to cement log and found that we had got down to 2017 mkb. Wireline counter was out 55m. Tight spot half way in the last joint of casing. Pooh.
07:15 Rih with 177.8mm Cardium Production Perrnanent Packer with 58.75mm "X" Profile Nipple (With plug in place) c/w tail assembly as follows: 1--73mm EUE L-80 13.69 kg/m 3m Pup Jt. (Impreglon coated)
1--73mm x 58.75mm EUE Otis "X" Profile landing nipple (Impreglon coated)
1--73mm EUE L-80 13.69 kg/m 3m Perforated Pup Jt. (Impreglon coated)
1--73mm EUE L-80 13.69 kg/m 3m Pup Jt. (Impreglon coated)
1--73mm EUE L-80 Wireline Re-entry Guide c/w mm no-go Profile (Impreglon coated)
09:00 Packer set @ CE 2012 mkb. Tail joint bottom @ 2022.76 mkb. WR plug @ 2011 mkb.
Pooh with wireline.
Rig down most of lubricator.
Pressure test packer with H2O. to 17 mpa. for 10 min. Good test.
11:00 Rih with IPS Bond log tool. Perform speed run to see if they can find cement top. Run to bottom (2010 mkb) and start to pull a cement bond log.
13:30 Bond log done. Pooh with logging tools.
14:00 Rih with drill pipe to be able to pull back out & lay down with a lay down machine.
20:00 Continue to lay down drill pipe.
24:00 Continue to lay down drill pipe and collars.

Weather/Temp:	Clear -6	**Roads Conditions:**	good	**Safety Co.:**	Iroc Safety
Service Rig:	Akita # 55	**Rig Manager:**	Tony Erwin	**Mobile:**	1-780-910-9102
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories			**Date:**	March 15/2002	**Day:**	2
AFE #:	144001	**Est Cost:**		**Prev.Cost:**	$3,282	**Daily Cost:** $1,000	**Cum Cost:** $4,282

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1				
#2				
#3				
Tubing out		Tubing in well		

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		
Total Fluid Recovered To Date		
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services.	$1,000

Zones of Interest:				
	Name:	Slave Point	Perforations:	Open Hole 2024--2078 mKB.
	Name:		Perforations:	mKB.
	Name:		Perforations:	mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Wait on drilling rig.

From — Detailed Description of Previous Day's Operation

00:00 Wait on drilling rig.

06:00 Rig has achieved circulation. Start to drill ahead. Have drilled to 2060 mkb. Want another 10 to 15m.

11:00 Have drilled to desired depth (2078 mkb.) Mix up LCM pills to pump down, with fresh water to empty and clean-out rig tanks.
Call Cameron, Hill's Power tongs & Discovery Service to alert them of rig status. Continue to wait till drilling rig is finished and ready to pull drill pipe out of hole so we can run Cardium Packer.

14:00 Well has been drilled to T.D. depth @ 2078 mkb. Pull drill pipe up into casing. Circulate hole clean with fresh water.

15:00 Rig consultant decided to clean all mud tanks of drilling mud & LCM materials and pump down hole. Clean each tank with fresh water & also pump down hole. Waiting to Pull drill pipe & Rih with Production packer on wireline.

21:00 Start to pull drill pipe from hole.

24:00 Continue to pull drill pipe.

Weather/Temp:	Cloudy -6	**Roads Conditions:**	good	**Safety Co.:**	Iroc. Safety
Service Rig:	Akita # 55	**Rig Manager:**	Tony Erwin	**Mobile:**	1-780-910-9102
Prepared by:	Mark Borle	**Res/Motel & Room #:**	Camp	**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1936

Anadarko Canada Corp

Daily Completion and Well Servicing Report

Well Name:	Netla A-68 Northwest Territories	**Date:**	March 14/2002	**Day:**	1
AFE #:	144001	**Est Cost:**	**Prev.Cost:**	**Daily Cost:**	$3,282	**Cum Cost:**	$3,282

Casing Details:	Size	Weight	Grade	Landed At
Casing #1:	244.5mm	59.63kg/m	K-55	559mkb
Casing #2:	177.8mm	28.69kg/m	L-80;LT&C	2024mkb
Casing #3:				
Liner:				

Tubing:	Size	Weight	Grade	On Location
#1				
#2				
#3				
Tubing out		Tubing in well		

DAILY FLUID BREAKDOWN

Fluid Vol. M^3	Oil	Water
Total Fluid Pumped		
Recovered Last 24 Hours		
Total Fluid Recovered To Date		
Total Hauled To Lease		
Total Hauled From Lease		
Fluid In Tanks		
Non-Recoverable Annular Fluid		
Fluid Lost To Abandonment.		
Load To Recover (+ = NewFluid)		
Previous Load Fluid (+ = NewFluid)		

DAILY COST BREAKDOWN

Services	Amount
Total Production Services.	$1,300
Hess Oilfield Rentals	$360
Baker Hughs (Inhibiter)	$1,622
IPS Wireline	

Zones of Interest:	Name:	Slave Point	Perforations:	Open Hole 2024--2078	mKB.
	Name:		Perforations:		mKB.
	Name:		Perforations:		mKB.

Purpose of Job: Rih with completion tbg string & flow test.

Operation at 08:00 Hours: Wait on drilling rig.

From	Detailed Description of Previous Day's Operation
00:00	Continue to Travel from Farrel Creek loc. To Netla Loc. In N.W.T.
05:00	Arrive on loc. Looks as though rig is waiting on oreders.
09:30	Ckeck in with drilling rig consultant (Jim Elliot) Rig has lost circulation and is mixing up LCM. Has ordered a water pump from FSJ to be able to load water trucks faster so they can drill ahead. Called some services for completion, to make sure they are informed as to what stage of drilling we are at, and when they can exspect to be called for completion.
24:00	Continue to wait on drilling rig.

Weather/Temp:	Cloudy -6	**Roads Conditions:**	good	**Safety Co.:**	
Service Rig:	Akita # 55	**Rig Manager:**		**Mobile:**	
Prepared by:	Mark Borle	**Res/Motel & Room #:**		**Mobile:**	1-780-982-3217
Prepared for:	Mike Varga	**UWI:**	00/A68-60-50-122-30 NWT	**License Number:**	1935

GEOLOGICAL WELLSITE REPORT

ANADARKO CANADA CORP.

ANADARKO NETLA A-68

A-68 60.5 122.45
NORTHWEST TERRITORIES

PERMIT TO PRACTICE
ECL CANADA
Signature _____
Date _____
PERMIT NUMBER: P 04348
The Association of Professional Engineers,
Geologists and Geophysicists of Alberta

GEOLOGICAL REPORT

ON
ANADARKO NETLA A-68
A-68 60.5 122.45

FOR

ANADARKO CANADA CORP.

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January, 2002

Benjamin Urlwin, M. Sc.,
Wellsite & Operations Geologist

EXPLORATION CONSULTANTS (CANADA) LTD.

WELL DATA SUMMARY

WELL NAME	ANADARKO NETLA A-68
LEGAL LOCATION	NAD 27: N6738717.87: E516654.97
UNIQUE WELL I.D.	A-68 60.5 122.45
SURFACE LOCATION	NAD 27: N6738717.87: E516654.97
FIELD/REGION	Netla
OPERATOR	Anadarko Canada Corp.

SITE DATA

BOTTOMHOLE COORDINATES	190m S and 162m E of surface location.	
SURFACE COORDINATES	NAD 27: N6738717.87: E516654.97	
SEISMIC LOCATION	Netla 3D e 31 Trace 73	
WELL CLASSIFICATION	Wildcat	WELL LICENSE # 1936
AFE NUMBER	0143002	
DRILLING CONTRACTOR	Akita 55	

ELEVATIONS

GROUND LEVEL	649.20 (m)
KELLY BUSHING	654.10 (m)

DRILLING DATES

SPUD DATE	February 24, 2002	**TIME** 20:00 hrs
T.D. DATE	March 15, 2002	**TIME** 11:30 hrs
RIG RELEASE DATE	March 20, 2002	

HOLE SIZE & MUD TYPE

SURFACE	311mm, Gelchem
INTERMEDIATE	215.9 mm, Invert
MAIN	155.6 mm, Water based Staflo Polymer system

CASING DATA

SURFACE	42 jts of 59.53kg/m, 244.5mm casing set at 560m
INTERMEDIATE	146 jts of 38.69kg/m, 177.8mm casing set at 2024m
PRODUCTION	None

GEOLOGICAL DATA

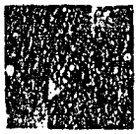
SAMPLE INTERVAL	565 m-TD
GAS DETECTION INTERVAL	565 m-TD
CORES	None
LOGGING SUITE	GR-BHC Sonic-ET AC-AIT(H)
DRILL STEM TESTS	None

WELL STATUS **Awaiting production testing**

FORMATION TOPS

K.B.(m): 654.10 **G.L.(m):** 649.20

Scatter Sand	501.0	153.1	-	-	-	-	-	-
Garbutt	566.0	88.1	-	-	-	-	560.0	94.1
Devonian Unconsolidated	681.0	-27.0	-	685.0	-30.9	-	676.0	-21.9
Kotcho	739.0	-85.0	-	735.0	-80.9	-	726.0	-71.9
Tetcho	1019.0	-365.0	-	1015.0	-360.9	-	1014.0	-359.9
Trout River	1108.0	-454.0	-	1090.0	-435.9	-	1099.0	-444.9
Kakisa	1184.0	-530.0	1183.0	1181.5	-527.4	1182.0	1181.0	-526.9
Fort Simpson	1217.0	-563.0	1225.0	1222.0	-567.9	1208.0	1205.0	-550.9
Fort Simpson Marker	1731.0	-1077.0	N/f	N/f	N/f	N/f	N/f	N/f
Muskwa	1924.0	-1270.0	1993.0	1960.0	-1305.9	1993.0	1959.0	-1304.9
Slave Point	1952.0	-1298.0	2021.0	1986.4	-1332.3	2021.5	1987.0	-1332.9
Slave Point Porosity	1980.0	-1326.0	2050.0	2015.0	-1360.9	Not Logged		
Sulphur Point	2111.0	-1457.0	Not Drilled			Not Logged		
Nahanni	2213.0	-1559.0	Not Drilled			Not Logged		
Pre-Devonian Clastics	2294.0	-1640.0	Not Drilled			Not Logged		
TOTAL DEPTH	2404.0	-1750.0	Not Drilled			Not Logged		



Job Number: 1031
State/Country: NWT CANADA
Company: ANADARKO CANADA CORPORATION
Declination: 25.6
Lease/Well: ANADARKO NETLA
Grid:
Location: A-68
File name: C:\WINSERVE\DOCS\ANA.SVY
Rig Name: AKITA 55
Date/Time: 07-Mar-02 / 17:13
RKB: 652.4
Curve Name: ANADARKO NETLA
G.L. or M.S.L.:

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method
Vertical Section Plane 139.94

Measured Depth Meters	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S Meters	E-W Meters	Vertical Section Meters	CLOSURE Distance Meters	CLOSURE Direction Deg	Dogleg Severity Deg/30
559.00	.00	.00	559.00	.00	.00	.00	.00	.00	.00
564.76	.30	196.50	564.76	-.01	.00	.01	.02	196.47	1.56
594.66	.30	246.10	594.66	-.12	-.10	.03	.16	218.97	.25
642.73	.20	278.80	642.73	-.16	-.30	-.07	.34	241.70	.11
690.88	.60	257.00	690.88	-.20	-.62	-.25	.66	251.98	.26
738.90	1.10	1.00	738.89	.20	-.86	-.71	.88	283.14	.86
767.70	2.10	14.30	767.68	.99	-.73	-1.22	1.23	323.69	1.10
796.50	2.50	5.50	796.46	2.13	-.54	-1.97	2.19	345.85	.55
806.10	2.40	.20	806.05	2.53	-.52	-2.27	2.59	348.51	.77
815.60	2.00	354.70	815.54	2.90	-.53	-2.56	2.95	349.64	1.43
825.30	1.80	345.50	825.24	3.21	-.58	-2.84	3.27	349.71	1.13
834.80	1.60	356.80	834.73	3.49	-.63	-3.08	3.55	349.80	1.23
854.10	1.20	338.60	854.03	3.95	-.72	-3.48	4.01	349.71	.92
863.70	.90	355.70	863.63	4.12	-.76	-3.64	4.19	349.55	1.35
892.60	1.00	61.40	892.52	4.46	-.56	-3.77	4.50	352.91	1.07
902.20	1.70	110.60	902.12	4.45	-.35	-3.63	4.47	355.53	4.04
911.85	2.10	130.30	911.77	4.29	-.08	-3.33	4.29	358.94	2.36
921.40	2.80	140.40	921.31	4.00	.20	-2.93	4.00	2.90	2.58
931.11	2.80	133.70	931.01	3.65	.53	-2.46	3.69	8.19	1.01
940.77	2.20	125.00	940.66	3.38	.85	-2.04	3.49	14.08	2.20
950.37	2.50	125.00	950.25	3.16	1.17	-1.66	3.37	20.35	.94
960.04	2.40	112.00	959.91	2.96	1.53	-1.28	3.33	27.36	1.75
969.70	2.50	107.00	969.56	2.82	1.92	-.92	3.41	34.24	.73
979.31	3.00	109.90	979.16	2.67	2.36	-.53	3.56	41.39	1.62
988.90	3.20	111.60	988.74	2.49	2.84	-.08	3.78	48.77	.69
998.50	3.90	107.40	998.32	2.29	3.40	.43	4.10	56.01	2.33

Measured Depth Meters	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S Meters	E-W Meters	Vertical Section Meters	CLOSURE Distance Meters	CLOSURE Direction Deg	Dogleg Severity Deg/30
1008.10	4.50	104.30	1007.89	2.10	4.08	1.02	4.59	62.72	2.00
1017.70	4.80	100.50	1017.46	1.94	4.84	1.63	5.21	68.18	1.34
1027.29	5.10	103.70	1027.01	1.76	5.65	2.29	5.92	72.66	1.28
1036.89	5.40	102.60	1036.57	1.56	6.50	2.99	6.69	76.48	.95
1046.54	5.60	103.20	1046.18	1.36	7.40	3.73	7.53	79.61	.65
1056.18	6.00	105.80	1055.77	1.11	8.35	4.52	8.42	82.41	1.49
1065.90	6.90	105.20	1065.43	.82	9.40	5.42	9.43	85.01	2.79
1075.55	7.70	106.40	1075.00	.49	10.58	6.44	10.59	87.37	2.53
1085.21	8.50	106.00	1084.56	.11	11.89	7.57	11.89	89.48	2.49
1094.87	9.50	108.20	1094.11	-.34	13.33	8.84	13.33	91.46	3.28
1104.52	9.30	115.60	1103.63	-.92	14.79	10.23	14.82	93.58	3.81
1114.17	9.50	123.10	1113.15	-1.70	16.16	11.70	16.25	95.99	3.86
1123.72	9.80	127.70	1122.56	-2.62	17.46	13.25	17.66	98.54	2.60
1133.31	10.40	130.00	1132.00	-3.68	18.77	14.90	19.13	101.09	2.26
1142.96	10.90	131.90	1141.49	-4.85	20.12	16.66	20.69	103.55	1.90
1152.54	11.40	132.80	1150.89	-6.10	21.49	18.49	22.34	105.84	1.66
1162.13	11.90	137.10	1160.28	-7.46	22.86	20.42	24.04	108.09	3.13
1171.71	12.90	137.10	1169.63	-8.97	24.26	22.48	25.86	110.30	3.13
1181.33	13.50	137.10	1179.00	-10.58	25.75	24.67	27.84	112.34	1.87
1190.99	13.80	137.10	1188.39	-12.25	27.30	26.95	29.93	114.17	.93
1200.64	13.90	140.50	1197.76	-13.99	28.82	29.26	32.04	115.89	2.55
1210.29	14.30	144.70	1207.12	-15.86	30.25	31.60	34.15	117.66	3.41
1219.96	14.60	148.90	1216.48	-17.87	31.57	34.00	36.28	119.52	3.38
1229.61	15.10	151.20	1225.81	-20.02	32.80	36.43	38.43	121.39	2.40
1239.23	16.10	151.00	1235.07	-22.28	34.05	38.97	40.70	123.20	3.12
1248.83	17.00	154.20	1244.28	-24.71	35.31	41.64	43.10	124.98	4.00
1258.41	16.90	158.00	1253.44	-27.26	36.44	44.32	45.51	126.80	3.48
1268.07	17.10	160.00	1262.68	-29.90	37.45	46.99	47.92	128.60	1.92
1277.74	16.10	162.40	1271.95	-32.51	38.34	49.56	50.27	130.29	3.76
1287.38	15.40	163.20	1281.22	-35.01	39.12	51.97	52.50	131.83	2.28
1297.04	14.50	165.00	1290.56	-37.41	39.80	54.25	54.62	133.22	3.14
1306.68	14.80	166.70	1299.88	-39.77	40.40	56.44	56.69	134.55	1.63
1316.34	15.20	169.30	1309.21	-42.22	40.92	58.64	58.79	135.90	2.43
1326.00	16.30	168.20	1318.51	-44.79	41.43	60.94	61.01	137.23	3.54
1335.63	16.50	164.70	1327.75	-47.43	42.07	63.37	63.40	138.43	3.14
1345.27	16.50	159.10	1336.99	-50.03	42.92	65.91	65.91	139.38	4.95
1354.91	15.80	155.60	1346.25	-52.50	43.95	68.47	68.47	140.07	3.73
1364.55	16.20	150.40	1355.52	-54.87	45.15	71.05	71.06	140.55	4.63
1374.20	16.10	148.80	1364.79	-57.18	46.51	73.70	73.71	140.88	1.42
1383.85	15.60	146.30	1374.07	-59.41	47.92	76.31	76.33	141.11	2.63
1393.39	15.00	144.00	1383.27	-61.47	49.36	78.82	78.84	141.24	2.68
1403.15	15.10	141.90	1392.70	-63.50	50.89	81.35	81.37	141.29	1.70

Measured Depth Meters	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S Meters	E-W Meters	Vertical Section Meters	CLOSURE Distance Meters	CLOSURE Direction Deg	Dogleg Severity Deg/30
1412.79	14.80	142.20	1402.01	-65.46	52.42	83.83	83.86	141.31	.96
1422.45	14.30	142.60	1411.36	-67.38	53.90	86.26	86.28	141.34	1.58
1432.10	13.50	144.00	1420.73	-69.24	55.28	88.57	88.60	141.39	2.70
1441.76	13.30	140.50	1430.13	-71.01	56.65	90.81	90.84	141.41	2.59
1451.41	14.90	140.50	1439.49	-72.82	58.15	93.16	93.19	141.39	4.97
1461.07	15.60	141.00	1448.81	-74.79	59.76	95.70	95.73	141.37	2.21
1470.72	17.00	139.80	1458.07	-76.87	61.48	98.41	98.44	141.35	4.48
1480.33	17.60	141.80	1467.24	-79.09	63.29	101.26	101.29	141.33	2.64
1490.01	17.90	143.50	1476.46	-81.44	65.08	104.21	104.24	141.37	1.86
1499.66	18.40	143.50	1485.63	-83.85	66.87	107.21	107.25	141.43	1.55
1509.30	18.80	145.40	1494.77	-86.35	68.65	110.28	110.32	141.51	2.26
1518.90	18.80	141.10	1503.86	-88.83	70.50	113.36	113.41	141.56	4.33
1528.55	19.10	137.10	1512.99	-91.20	72.56	116.50	116.54	141.49	4.14
1538.19	19.00	136.30	1522.10	-93.49	74.71	119.64	119.67	141.37	.87
1547.44	19.00	135.00	1530.84	-95.64	76.82	122.64	122.67	141.23	1.37
1557.42	19.00	134.10	1540.28	-97.92	79.13	125.87	125.90	141.06	.88
1567.08	18.80	135.00	1549.42	-100.11	81.36	128.99	129.01	140.90	1.10
1576.75	18.60	138.70	1558.58	-102.38	83.48	132.08	132.10	140.80	3.73
1586.39	18.40	139.50	1567.72	-104.69	85.49	135.14	135.16	140.77	1.01
1596.04	18.30	140.90	1576.88	-107.02	87.43	138.18	138.19	140.75	1.40
1605.70	17.70	143.10	1586.07	-109.37	89.27	141.16	141.18	140.78	2.82
1615.37	17.10	144.40	1595.30	-111.70	90.98	144.05	144.07	140.84	2.22
1625.01	17.50	143.50	1604.50	-114.02	92.67	146.91	146.93	140.90	1.50
1634.66	17.30	141.70	1613.71	-116.31	94.42	149.79	149.81	140.93	1.79
1644.33	17.30	138.50	1622.94	-118.52	96.26	152.66	152.69	140.92	2.95
1653.97	17.50	138.00	1632.14	-120.67	98.18	155.55	155.57	140.87	.78
1663.64	18.10	140.00	1641.35	-122.90	100.12	158.50	158.52	140.83	2.66
1673.29	19.00	139.10	1650.49	-125.24	102.11	161.57	161.59	140.81	2.94
1682.90	19.70	137.10	1659.56	-127.61	104.24	164.75	164.77	140.76	3.01
1692.51	19.70	136.20	1668.61	-129.96	106.46	167.99	168.00	140.68	.95
1702.11	19.20	137.30	1677.66	-132.29	108.65	171.18	171.19	140.60	1.94
1711.70	18.40	138.50	1686.74	-134.58	110.73	174.27	174.28	140.55	2.78
1721.28	17.70	140.50	1695.85	-136.84	112.65	177.23	177.24	140.54	2.93
1730.84	17.30	141.70	1704.97	-139.07	114.46	180.11	180.12	140.55	1.69
1740.44	17.30	139.70	1714.13	-141.28	116.27	182.96	182.97	140.55	1.86
1750.02	18.10	137.00	1723.26	-143.46	118.20	185.87	185.88	140.51	3.59
1759.62	17.90	139.20	1732.39	-145.67	120.18	188.84	188.85	140.47	2.21
1769.24	17.70	139.70	1741.55	-147.90	122.10	191.78	191.79	140.46	.78
1778.85	18.00	140.80	1750.70	-150.17	123.98	194.72	194.73	140.46	1.41
1788.51	18.10	142.10	1759.88	-152.51	125.85	197.72	197.72	140.47	1.29
1798.06	18.00	144.20	1768.96	-154.87	127.62	200.67	200.68	140.51	2.07
1807.66	16.90	143.10	1778.12	-157.19	129.33	203.54	203.55	140.56	3.59

Measured Depth Meters	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S Meters	E-W Meters	Vertical Section Meters	CLOSURE Distance Meters	CLOSURE Direction Deg	Dogleg Severity Deg/30
1817.30	16.20	143.10	1787.36	-159.39	130.97	206.28	206.30	140.59	2.18
1826.89	15.10	141.20	1796.59	-161.43	132.56	208.87	208.88	140.61	3.80
1836.47	14.50	138.70	1805.86	-163.30	134.13	211.32	211.33	140.60	2.74
1846.07	13.50	137.80	1815.17	-165.04	135.68	213.64	213.65	140.58	3.20
1855.63	12.80	135.20	1824.48	-166.62	137.18	215.81	215.82	140.54	2.88
1865.22	12.10	134.30	1833.84	-168.07	138.64	217.87	217.88	140.48	2.27
1874.80	12.60	134.10	1843.20	-169.50	140.11	219.91	219.91	140.42	1.57
1884.42	12.70	137.00	1852.59	-171.00	141.59	222.01	222.01	140.38	2.00
1894.00	12.60	136.80	1861.94	-172.54	143.02	224.10	224.11	140.34	.34
1904.62	13.10	136.40	1872.29	-174.25	144.64	226.46	226.46	140.30	1.43
1913.25	12.70	135.10	1880.70	-175.63	145.99	228.38	228.38	140.27	1.72
1922.80	12.50	133.90	1890.02	-177.09	147.47	230.45	230.46	140.21	1.03
1932.42	12.10	133.20	1899.42	-178.50	148.96	232.49	232.49	140.16	1.33
1941.99	11.90	133.50	1908.78	-179.87	150.40	234.47	234.47	140.10	.66
1951.57	11.00	135.20	1918.17	-181.20	151.77	236.36	236.36	140.05	3.01
1961.15	11.00	134.40	1927.58	-182.49	153.06	238.18	238.18	140.01	.48
1980.34	11.60	130.90	1946.39	-185.03	155.83	241.91	241.91	139.90	1.42
1999.50	10.10	132.00	1965.21	-187.42	158.53	245.47	245.47	139.77	2.37
2013.00	9.20	130.80	1978.52	-188.91	160.23	247.71	247.71	139.70	2.05
--Projection to Bit--									
2028.00	8.20	129.47	1993.35	-190	1.96	249.95	249.95	139.61	2.04

WELLSITE BIT RECORD

ANADARKO NETLA A-68
NAD 27: N6738717.87: E516654.97

SPUD DATE: February 24, 2002
T.D. DATE: March 15, 2002

SURFACE CASING: 560 m

BIT #	1	1A	2	2A	3	4
SIZE (mm)	311.2	311.2	216	216	156	156
MAKE	Hughes	Hughes	DOWDCO	Hughes	Reed	Smith
TYPE	ATJ-11H	GT-1	TM-266	GT-03	HP-12	XR30T
SERIAL #	P75EM	X16HS	D-1266	R00DL	3L121	NK4826
JETS	3x15.9	3x15.9	6x11.9	3x11.1	3x15.9	3x15.9
DEPTH IN	0.00	550.00	560.00	1476.00	2028.00	2035.00
DEPTH OUT	550.00	560.00	1476.00	2028.00	2035.00	2078.00
METRES	550.00	10.00	916.00	552.00	7.00	43.00
HOURS	3.75	0.75	44.50	34.50	2.25	10.00
ACC. HRS.	3.75	4.50	49.00	83.50	85.75	95.75
ROP (m/hr)	146.67	13.33	20.58	16.00	3.11	4.30
FOB	2-6,000	2-6,000	3-6000	8-9000	3-5000	3-5000
RPM	120-200	120-200	35+MTR	35+MTR	50	55
PP			10-13000	10-13000	5-6000	6500
DEN	1110	1110	920	925	1010	1010
VISCOSITY	45-62	62	65	62	36	32
MAX DEV.°	1.0	1.0	19.0	19.0		
Condition:	T/B/G	T/B/G	T/B/G	T/R/G	T/B/G	T/B/G
Condition:	IR/OR/D/L	IR/OR/D/L	IR/OR/D/L	IR/OR/D/L	IR/OR/D/L	IR/OR/D/L
	3/3/BT/M					
	N/C/G/RP	B/G/O/RP	B/G/O/RP	B/G/O/RP	B/G/O/RP	B/G/O/RP
	8/I/BT/BC					
REMARKS						

DAILY DRILLING SUMMARY

ANADARKO NETLA A-68
NAD 27: N6738717.87: E516654.97

Daily Summary is a summary of the morning report of that day ie. the previous 24hrs from midnight to midnight.

Date	Depth	Progress	Drilling Hours	ROP (m/hr)	Mud Properties Density	Vis	WL	pH	Operations Summary
23 Feb	247.00	247.00	15.75	15.68	1100	48		11.5	Spud at 00:01 hrs, drill 311mm hole to 247m
24 Feb	535.00	288.00	20.00	14.40	1110	48		11.5	Drill ahead with 311mm hole.
25 Feb	550.00	15.00	1.75	8.57	1110	62		9.5	Drill ahead to 550m. POOH to change bit, RIH.
26 Feb	560.00	10.00	0.75	13.33	1110	65		9.5	stands, run back to btm and circulate. POOH to run casing.
27 Feb	560.00	0.00							Complete running casing, circulate around casing, hold safety meeting and prepare to cement.
28 Feb									Cement casing. Nipple down from annular. Cut conductor, ready cellar, weld on bowl. Commence Nipple Up procedure.
01 Mar									Continue Nipple up, pressure testing, replace BOP rubbers, continue pressure testing.
02 Mar		0.00		-					Complete pressure testing, RIH and displace to invert mud system. Come out laying down drill pipe, pick up tools and RIH. Test mud motor, run to btm and drill out.
03 Mar	580.00	20.00	2.00	10.00	910	62			Drill cement, drill out shoe, drill ahead 5m and perform Leak Off Test. Drill ahead to 580m.
04 Mar	1004.00	424.00	21.75	19.49	915	65			Drill ahead and survey. Commence kick off and build early due to wellbore drift in opposite direction. Bit not responding well to sliding, full kelly sliding required.
05 Mar	1322.00	318.00	20.75	15.33	910	61			Drill ahead attempting to build angle, requiring full kelly slides.
06 Mar	1476.00	154.00	10.00	15.40	915	62			Drill ahead and survey. Unable to achieve required build rates, POOH to change bit and evaluate motor setting.
07 Mar	1816.00	340.00	19.00	17.89	920	65			Drill ahead to intermediate casing point.
08 Mar	2028.00	212.00	11.75	18.04	920	65			Drill ahead to intermediate casing point, circulate bottoms up and prepare to start wiper trip.
09 Mar									Wiper trip, condition hole, POOH to log with Schlumberger.

DAILY DRILLING SUMMARY

ANADARKO NETLA A-68
NAD 27: N6738717.87: E516654.97

Date	Depth	24hr Prog	Days from Spud	Total Days	Mud Wt	Vis	PV	YP	Activity at 0600 hrs
10 Mar		0.00							Complete logging with Schlumberger, run casing and prepare to cement.
11 Mar		0.00							Cement casing, repair BOP rubbers. Clean out invert and prepare to change over mud systems. RIH to drill out.
12 Mar	2035.00	7.00	2.25	3.11	1010	36	6.5	11.5	RIH and drill out. Drill from 2028-2035m, POOH to change bit.
13 Mar	2060.00	25.00	10.00	2.50	1010	36	6.5	11.5	RIH with new bit. Drill ahead to 2047m, circulate up sample, experience losses, pump pill. Drill to 2050m, circulate sample, drill to 2052.5m, gas show of 17%. Total loss of circulation, mix and make volume to try to regain circulation.
14 Mar	2060.00	0.00			1010	32	6.5	11.5	Mix and pump 12 LCM pills to attempt to regain circulation, no success,
15 Mar	2078.00	18.00	10.00	1.80	1010	32	6.5	11.5	Drill ahead (mainly blind) to 2078m, stop and prepare to mix pills.
16 Mar									Mix and pump pills, prepare to run wireline bridge plug.
17 Mar									Run wireline bridge plug.
18 Mar									Commence preparations to move rig off location and commence production testing.

WELLSITE LOGGING REPORT

ANADARKO NETLA A-68
NAD 27: N6738717.87: E516654.97

Hole Size: 216 mm		**Logging Co.:** Schlumberger
TD Driller: 2028 m	**Type:** Invert	**Engineer:** T. Maksymchuk
Strap:	**Density:** 925	**Truck No.:** 2031
TD Logger: 2028 m	**Viscosity:** 65	**Start Date:** 8th March, 2002
Casing Driller: 560 m	**W.L.:**	**Start Time:** 20:00 hrs
Casing Logger: 560 m	**pH:**	**End Date:** 9th March, 2002
Hole Condition: Good		**End Time:** 01:30 hrs

Run Number	Logged Interval From	To	Hours	Logs	Remarks
Run#1	2028	Sfc	3.5	AIT, GR, EDAC, BHC Sonic	Smooth run

Total Hours: 3.5

LOGGING OPERATIONS SUMMARY

Date	From	To	Description of Operation
8-9th March	8pm	1:30am	Rig up and perform Run#1, run went smooth and without incident.

REMARKS & COMMENTS

Hole condition was excellent, run went very smooth with no hang-ups or bridges.

FORMATION EVALUATIONS

ANADARKO NETLA A-68
A-68 60.5 122.45

The well Anadarko Netla A-68 was a wildcat/wide step out well in the Netla field, approximately 140 km north-east of Fort Liard, approximately 43 km along the Anadarko access road. The well was spudded on the February 24th, 2002 at a ground elevation of 649.2 metres and a KB elevation of 654.1 metres.

The primary target of the well was the Middle Devonian Slave Point Formation, expected to be encountered at a depth of 1934 metres true vertical depth (tvd) or –1298 metres sub-sea. 311 mm surface hole was drilled to 560 metres, at which point 42 joints of 59.53 kg/m surface casing was set. Intermediate hole was then drilled with 216 mm bits and an invert mud system. The directional portion of the well commenced at roughly 800 metres and required slides to build angle to approximately 19 degrees, along an azimuth of 144 degrees, in order to place the bottom hole position approximately 360 metres away from surface location along an azimuth of 144 degrees.

Intermediate casing point was just within the Slave Point Formation, at 2028 metres measured depth (Slave Point top at 2021 metres MD). At this point the intermediate hole was logged with Schlumberger (GR-BHC Sonic-EDAC-AIT(H)-SP), after which 146 joints of 38.69 kg/m, 177.8mm casing was set. A polymer, water based mud system was then used to drill 156 mm hole into the Slave Point. The original well program called for a core within the Slave Point, this was subsequently cancelled due to extreme loss off circulation, which also resulted in drilling being halted prematurely, some 400 metres above the prognosed final depth.

No final logging program could be run. A wireline bridge plug was set and preparations were made to commence production testing.

SLAVE POINT 2021.0 m MD (-1332.3 m SS)

The Middle Devonian Slave Point was the primary target in the well Anadarko Netla A-68 and was encountered at 2021 metres msd depth, 1986.4 metres tvd (-1332.3 metres ss), approximately 34 metres low to prognosis.

Upper most portions of the Slave Point (2021-2038 metres) at the Netla A-68 location, which were interpreted to represent an off-reef facies, consisted of light grey, argillaceous, predominantly non-porous limestones. These limestones exhibited abundant pyrite mineralization, dense quartz crystal aggregations, as well as with finely crystalline, euhedral quartz crystals, all indicating moderately strong hydrothermal alteration. **Although the limestone facies of this interval exhibited little effective porosity,** two significant gas shows were observed. **The first of these were a 820 unit show seen in conjunction with a drilling break at 2028 metres and was interpreted to most likely be a porosity show, although no porosity was observed in sample.** The second show was a 400 unit gas peak observed at 2035 metres, as seen in conjunction with high torque drilling, and is most likely a fracture related show (refer to Figure 1).

Lithologies encountered from 2038 metres MD down to total depth (2078 metres MD) exhibited a mineralogy and texture indicative of extreme hydrothermal alteration (mineralization characteristic of epithermal/mesothermal skarn deposit). Samples throughout this interval consisted of limestones with abundant pyrite and chalcopyrite, occasional sphalerite, abundant quartz as crystals and crystal aggregates (possible vugs and/or void infills) and moderately abundant chert. Limestones appeared pale to cream in colour and earthy in texture, with an apparent bleached nature to them, also indicative of a highly altered state.

Severe loss of circulation was encountered through this interval (over 300 cubic metres of fluid lost), making regular sample collection difficult, and gas readings being sporadic (shaker being constantly by-passed, or no returns at all). A major gas show of 17% (1700 units) was recorded during a period of mud returns across the interval 2050-2053 metres and occurred in association with a significant drilling break (20-30 m/hr). Although samples were only sporadic from 2038 metres down, and when obtained were again highly altered, **this stratigraphic level was interpreted to represent the top of the Slave Point Reef Facies and most likely represent the incoming of significant porosity at this location.**

CONCLUSION: The Slave Point Formation at the Netla A-68 location exhibited strong gas shows in conjunction with fracturing and hydrothermal alteration that will likely be favourable to a making producible reservoir.

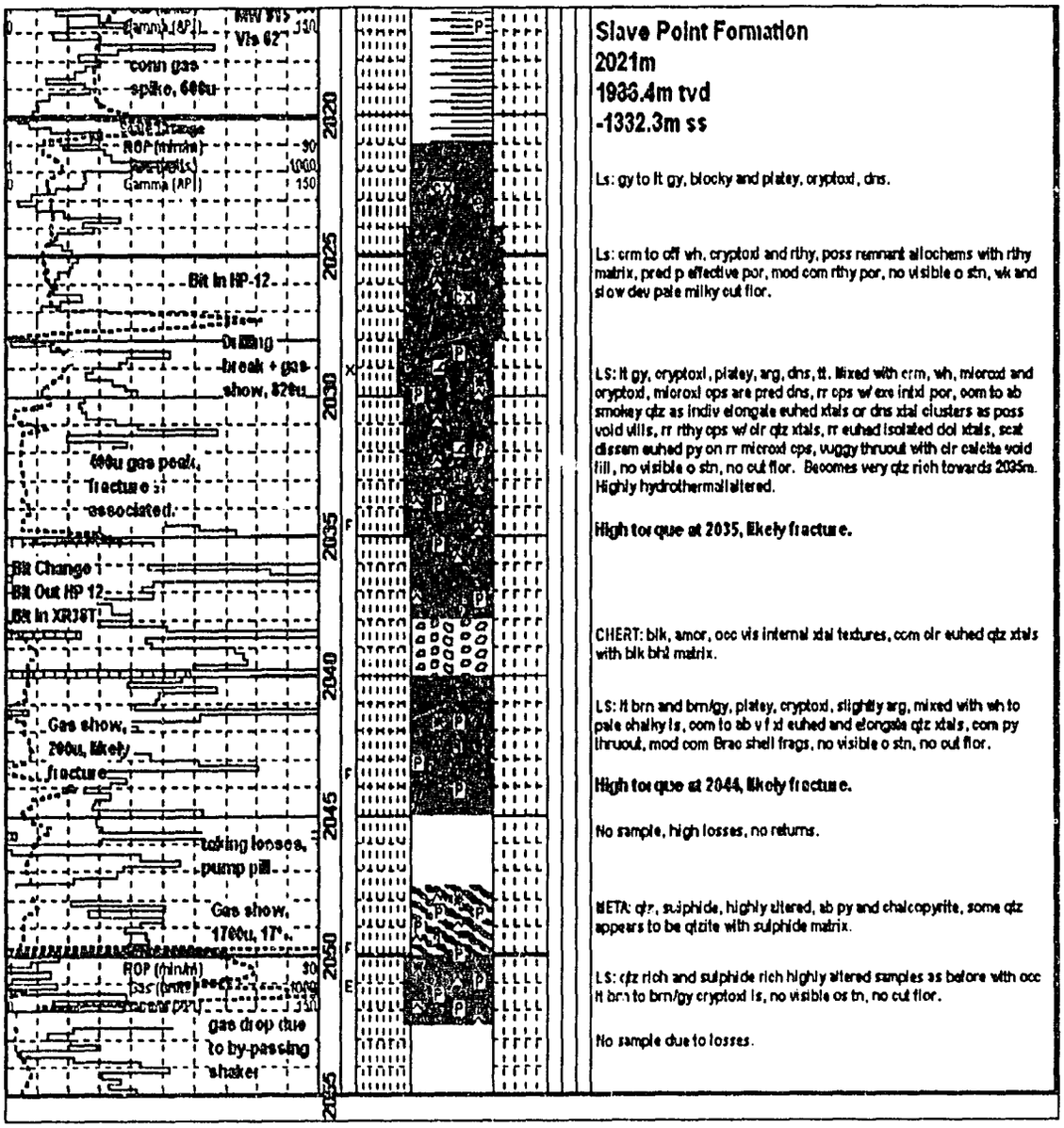


Figure 1: Strip log excerpt showing sample descriptions and gas and ROP data for the upper portions of the Slave Point Formation at the Anadarko Netla A-68 location.

LITHOLOGICAL DESCRIPTIONS

ANADARKO NETLA A-68
A-68 60.5 122.45

Surface casing set at 560m.

560-620 **SILTSTONE:** grey to medium grey, fissile to occasional platy, micaceous, clay rich, common shaly areas, rare sub to mm pyrite lams, trace to rare very fine-grained rounded glauconite grains, common very fine-grained sandstone stringers as siliceous well cemented well sorted quartz arenites, trace rounded glauconite grains within these, common intergranular clays where chips are no cemented, **no visible oil stain. no cut fluorescence.**

620-685 **SHALE:** dark grey to grey, fissile, platy, homogenous, soft, trace micaceous areas, rare silty horizons, occasional thick laminations of pyrite.

DEVONIAN UNCONSOLIDATED 685 m MD (-30.9 m SS)

685-700 **SANDSTONE:** very fine-grained to ext fine-grained quartz arenites, commonly well cemented (silica), moderately well sorted and rounded, calcareous in areas, grades to clay rich silty sands throughout, kaolinitic clays, **overall poor to very poor effective intergranular porosity, no visible oil stain, no cut fluorescence.**

700-735 **SHALE:** light grey to grey, blocky and weakly laminated, occasional platy, micaceous, soft, overall homogenous and structure less.

KOTCHO 735 m MD (-84.9 m SS)

735-802 **SILTSTONE:** white to pale cream/tan and off white, blocky to weakly platy, sub lithographic to arenitic with dark lithics and occasional weathered feldspars, weakly laminated in areas, strongly calcareous throughout, occasional micaceous zones, overall dirty in appearance in many areas, clay rich in areas, (white, gummy kaolinitic clays), occasional limestone stringers as white, cryptocrystalline dense carbonaceous.

802-830 **SHALE:** dark grey/occasional black, fissile, platy, micaceous, rare interbedded silts, strongly calcareous throughout.

830-850 **SHALE:** dark grey, grey/brown, platy to fissile, laminated in part, micaceous, strongly calcareous grading to marl in some areas.

850-910 **SHALE:** light grey to grey, blocky, occasional fissile, occasional platy, micaceous, silty throughout, predominantly homogenous and structureless, slightly calcareous throughout.

LITHOLOGICAL DESCRIPTIONS

ANADARKO NETLA A-68
A-68 60.5 122.45

Surface casing set at 560m.

560-620 **SILTSTONE:** grey to medium grey, fissile to occasional platy, micaceous, clay rich, common shaly areas, rare sub to mm pyrite lams, trace to rare very fine-grained rounded glauconite grains, common very fine-grained sandstone stringers as siliceous well cemented well sorted quartz arenites, trace rounded glauconite grains within these, common intergranular clays where chips are no cemented, **no visible oil stain, no cut fluorescence.**

620-685 **SHALE:** dark grey to grey, fissile, platy, homogenous, soft, trace micaceous areas, rare silty horizons, occasional thick laminations of pyrite.

DEVONIAN UNCONSOLIDATED 685 m MD (-30.9 m SS)

685-700 **SANDSTONE:** very fine-grained to ext fine-grained quartz arenites, commonly well cemented (silica), moderately well sorted and rounded, calcareous in areas, grades to clay rich silty sands throughout, kaolinitic clays, **overall poor to very poor effective intergranular porosity, no visible oil stain, no cut fluorescence.**

700-735 **SHALE:** light grey to grey, blocky and weakly laminated, occasional platy, micaceous, soft, overall homogenous and structure less.

KOTCHO 735 m MD (-84.9 m SS)

735-802 **SILTSTONE:** white to pale cream/tan and off white, blocky to weakly platy, sub lithographic to arenitic with dark lithics and occasional weathered feldspars, weakly laminated in areas, strongly calcareous throughout, occasional micaceous zones, overall dirty in appearance in many areas, clay rich in areas, (white, gummy kaolinitic clays), occasional limestone stringers as white, cryptocrystalline dense carbonaceous.

802-830 **SHALE:** dark grey/occasional black, fissile, platy, micaceous, rare interbedded silts, strongly calcareous throughout.

830-850 **SHALE:** dark grey, grey/brown, platy to fissile, laminated in part, micaceous, strongly calcareous grading to marl in some areas.

850-910 **SHALE:** light grey to grey, blocky, occasional fissile, occasional platy, micaceous, silty throughout, predominantly homogenous and structureless, slightly calcareous throughout.

1280-1315 **SHALE:** dark grey, occasional dark rusty brown/grey, weakly blocky and structureless to platy, predominantly chips are internally homogenous, micromicaceous throughout, non to calcareous, rare pale calcareous chips, rare Brachiopod shell fragments.

1315-1405 **SHALE:** medium grey, weakly platy to moderately blocky, moderately firm to hard, structureless, rare to occasional pale cream siliceous very fine-grained sandstone chips, common calcareous cement on these chips, no significant porosity, rare Brachiopod shell fragments, **very slowly developing pale milky cut fluorescence, no visible oil stain.**

1405-1480 **SHALE:** medium grey, occasional dark grey, platy to moderately blocky, occasional shard like, occasional laminated, structureless, non fissile, occasional micro to micaceous, weak and slow developing milky cut fluorescence, no visible oil stain, occasional Brachiopod shell fragments.

1480-1540 **SHALE:** grey to medium grey, blocky and platy, occasional shard like, micro micaceous throughout, non to calcareous, rare to occasional shell fragments, **no cut fluorescence, no visible oil stain.**

1540-1640 **SHALE:** medium grey, platy to moderately blocky, scattered shard like, homogenous, scattered micromicas, trace Brachiopod shell fragments, non to calcareous, **no cut fluorescence, no visible oil stain.**

1640-1730 **SHALE:** medium to dark grey, platy to moderately blocky, homogenous and structureless, scattered micromicas, trace Brachiopod shell fragments, non to calcareous, **no cut fluorescence, no visible stain.**

1730-1830 **SHALE:** medium to dark grey, weakly blocky to platy and shard like, predominantly homogenous and internally structure less.

1830-1880 **SHALE:** medium grey to dark grey, platy to weakly blocky, occasional shard like, occasional weakly fissile in areas, predominant structureless and homogenous, occasional to trace Brachiopod shell fragments, occasional pale grey claystone stringers.

1880-1930 **SHALE:** dark grey, occasional medium grey, moderately blocky and platy, common stringers of pale grey soft claystone, micromicaceous throughout, **no visible oil stain. weak and slow developing pale milky cut fluorescence.**

1930-1993 **SHALE:** medium to dark grey, platy grading to moderately blocky, common stringers of pale grey soft claystone, Siltstone:

MUSKWA 1993 m MD 1960 m TVD (-1305.9 m SS)

1993-2021 **SHALE:** black, soft, fissile, platy, carbonaceous, micaceous, moderately common finely disseminated euhedral pyrite, **slow developing building to bright milky yellow cut fluorescence.**

SLAVE POINT 2021 m MD 1986.4 m TVD (-1332.3 m SS)

2021-2025 **LIMESTONE:** grey to light grey, blocky and platy, cryptocrystalline, dense.

2025-2028 **LIMESTONE:** cream to off white, cryptocrystalline and earthy, possible remnant allochems with earthy matrix, **predominant poor effective porosity, moderately common earthy porosity, no visible oil stain, weak and slow dev pale milky cut fluorescence.**

INTERMEDIATE CASING set at 2028 m

2028-2038 **LIMESTONE:** light grey, cryptocrystalline, platy, argillaceous, dense, tight. Mixed with cream, white, microcrystalline and cryptocrystalline, microcrystalline chips are predominant dense, rare chips well/ excellent intercrystalline porosity, common to abundant smoky quartz as individual elongate euhedral crystals or dense crystal clusters as possible void fills, rare earthy chips well/ clear quartz crystals, rare euhedral isolated dolomite crystals, scattered disseminated euhedral pyrite on rare microcrystalline chips, vuggy throughout with clear calcite void fill, **no visible oil stain, no cut fluorescence.** Becomes very quartz rich towards 2035m. Highly hydrothermally altered.

2038-2040 **CHERT:** black, amorphous, occasional visible internal crystal textures, common clear euhedral quartz crystals within black matrix.

2040-2045 **LIMESTONE:** light brown and brown/grey, platy, cryptocrystalline, slightly argillaceous, mixed with white to pale chalky limestone, common to abundant very fine crystalline euhedral and elongate quartz crystals, common pyrite throughout, moderately common Brachiopod shell fragments, **no visible oil stain, no cut fluorescence.**

2045-2047.50 No sample, high losses, no returns.

2047.50-2050 **METAMORPHIC:** quartz, sulphide, highly altered, abundant pyrite and chalcopyrite, some quartz appears to be quartzite with sulphide matrix.

2050-2052.50 **LIMESTONE:** quartz rich and sulphide rich highly altered samples as before with occasional light brown to brown/grey cryptocrystalline limestone, **no visible oil stain, no cut fluorescence.**

2052.50-2055	No sample due to losses.
2055-2057.50	**LIMESTONE:** off white to cream and pale cream, cryptocrystalline and earthy, scattered pyrite, **only earthy porosity, no to poor effective porosity,** common highly altered chips as before, common fracture evidence in drilling parameters, common pyrite.
2057.50-2062.5	No sample due to losses.
2062.50-2065	**LIMESTONE:** pale cream to tan, translucent in areas, blocky, cryptocrystalline, dense, fossiliferous, Brachiopod shell fragments, common clear and dark cryptocrystalline quartz and cherts as before, common pyrite and possible chalcopyrite.
2065-2070	No sample due to losses.
2070-2072.50	**LIMESTONE:** pale cream to tan, translucent in areas, blocky, cryptocrystalline, dense, fossiliferous, Brachiopod shell fragments, common clear and dark cryptocrystalline quartz and cherts as before, common pyrite and possible chalcopyrite.
2072.5-2078	No sample due to losses.

TOTAL DEPTH was reached at 2078 m MD on March 15, 2002 at 1100 hours.

RAPID WIRELINE
TEST
DATED
02/15/04 – 02/17/04

COPY

N.E.B. COPY

Company: ANADARKO CANADA CORPORATION 1956
Well name: ANADARKO NETLA
Location: A-68
Date of test: 02/15/04 TO 02/17/04
Test by RAPID WIRELINE SERVICES LTD.
Interp. by P.D.Q. Services Ltd.

Subsurface Pressure Measurements

Company: ANADARKO CANADA CORPORATION
Address: CALGARY, ALBERTA
Field & Pool: NETLA / SLAVE POINT
Type of test: BUILD UP
Prod. Int KB: 1989.44 to 2043.02
Elev. (CF) 649.3 (KB) 654.01
Pool datum:

Well name: ANADARKO NETLA
Location: A-68
Status: GAS
Date of test: 02/15/04 TO 02/17/04
Prod. through: 88.9MM TUBING
Mid-point prod.int. KB: 2016.23
Datum depth of well KB:

Tubing pres: INITIAL: 14426 FIN: 14431
Shut in time: 04/02/02 18:00 HRS
Temperature at run depth: 105.820
Deviated well: Y

Casing pres: 911
Duration of Shut in: EXTENDED
On/off btm: 02/15/04 / 02/17/04
Depths corrected to TVD: Y

Note: All units in metric, depth in meters kb; pressure in kPaa

TOP RECORDER

Element serial#: 9804
Pressure Range: 41369 KPAA
CAL-SCAN ELECTRONIC RECORDER
Latest calibration: 06/11/03
Reading Interval: 20 SECONDS
Gauge started: 02/15/04 10:51
Gauge stopped: 02/17/04 11:42
Run depth (KB): 1983.7

BOTTOM RECORDER

Element serial#: 8042
Pressure range: 68990 KPAA
CAL-SCAN ELECTRONIC RECORDER
Latest calibration: 12/19/03
Reading Interval: : 20 SECONDS
Gauge started: 02/15/04 10:51
Gauge stopped: 02/17/04 11:42
Run depth (KB): 1984.2

TOP RECORDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
	02/15/2004	11:30:00	ON BOTTOM		
2/15/2004 11:30:00	0.0000	0.0000	94.141	16897.32	
2/15/2004 11:30:20	0.0056	0.0056	97.433	16939.14	
2/15/2004 11:30:40	0.0111	0.0111	99.661	16965.93	
2/15/2004 11:31:00	0.0167	0.0167	100.895	16989.71	
2/15/2004 11:31:20	0.0222	0.0222	101.623	17003.48	
2/15/2004 11:31:40	0.0278	0.0278	102.131	17010.91	
2/15/2004 11:32:00	0.0333	0.0333	102.614	17014.84	
2/15/2004 11:32:20	0.0389	0.0389	102.927	17019.72	
2/15/2004 11:32:40	0.0444	0.0444	103.148	17023.56	
2/15/2004 11:33:00	0.0500	0.0500	103.322	17026.06	
2/15/2004 11:33:20	0.0556	0.0556	103.460	17027.75	
2/15/2004 11:33:40	0.0611	0.0611	103.573	17029.45	
2/15/2004 11:34:00	0.0667	0.0667	103.670	17030.67	
2/15/2004 11:35:00	0.0833	0.0833	103.905	17032.45	
2/15/2004 11:35:40	0.0944	0.0944	104.006	17034.03	
2/15/2004 11:37:00	0.1167	0.1167	104.107	17035.25	
2/15/2004 11:38:40	0.1444	0.1444	104.210	17036.41	
2/15/2004 11:45:20	0.2556	0.2556	104.561	17037.42	
2/15/2004 12:04:40	0.5778	0.5778	105.119	17038.46	
2/15/2004 12:30:00	1.0000	1.0000	105.522	17038.99	

Company: ANADARKO CANADA CORPORATION Well name: ANADARKO NETLA
Date of test: 02/15/04 TO 02/17/04 Location: A-68
Element serial#: 9804 Run Depth (KB): 1983.7

TOP RECORDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
2/15/2004 12:56:40	1.4444	1.4444	105.585	17040.00	
2/15/2004 13:22:40	1.8778	1.8778	105.632	17041.10	
2/15/2004 13:30:00	2.0000	2.0000	105.642	17041.08	
2/15/2004 14:29:40	2.9944	2.9944	105.691	17042.14	
2/15/2004 14:30:00	3.0000	3.0000	105.689	17042.06	
2/15/2004 15:30:00	4.0000	4.0000	105.707	17042.47	
2/15/2004 16:30:00	5.0000	5.0000	105.726	17043.00	
2/15/2004 17:30:00	6.0000	6.0000	105.732	17042.97	
2/15/2004 18:30:00	7.0000	7.0000	105.739	17043.40	
2/15/2004 19:30:00	8.0000	8.0000	105.743	17043.38	
2/15/2004 20:30:00	9.0000	9.0000	105.744	17043.44	
2/15/2004 21:30:00	10.0000	10.0000	105.747	17043.60	
2/15/2004 22:30:00	11.0000	11.0000	105.748	17043.50	
2/15/2004 23:30:00	12.0000	12.0000	105.746	17043.56	
2/16/2004 00:30:00	13.0000	13.0000	105.754	17043.82	
2/16/2004 01:30:00	14.0000	14.0000	105.756	17043.93	
2/16/2004 02:30:00	15.0000	15.0000	105.752	17043.78	
2/16/2004 03:30:00	16.0000	16.0000	105.758	17043.83	
2/16/2004 04:30:00	17.0000	17.0000	105.754	17043.73	
2/16/2004 05:30:00	18.0000	18.0000	105.758	17044.00	
2/16/2004 06:30:00	19.0000	19.0000	105.755	17043.80	
2/16/2004 07:30:00	20.0000	20.0000	105.757	17043.95	
2/16/2004 08:30:00	21.0000	21.0000	105.753	17043.62	
2/16/2004 09:30:00	22.0000	22.0000	105.756	17043.93	
2/16/2004 10:30:00	23.0000	23.0000	105.757	17043.89	
2/16/2004 11:30:00	24.0000	24.0000	105.759	17044.00	
2/16/2004 12:30:00	25.0000	25.0000	105.759	17043.68	
2/16/2004 13:30:00	26.0000	26.0000	105.758	17043.64	
2/16/2004 14:30:00	27.0000	27.0000	105.760	17043.83	
2/16/2004 15:30:00	28.0000	28.0000	105.761	17043.97	
2/16/2004 16:30:00	29.0000	29.0000	105.760	17043.84	
2/16/2004 17:30:00	30.0000	30.0000	105.762	17044.01	
2/16/2004 18:30:00	31.0000	31.0000	105.764	17043.94	
2/16/2004 19:30:00	32.0000	32.0000	105.760	17044.02	
2/16/2004 20:30:00	33.0000	33.0000	105.757	17043.74	
2/16/2004 21:30:00	34.0000	34.0000	105.758	17043.77	
2/16/2004 22:30:00	35.0000	35.0000	105.763	17043.84	
2/16/2004 23:30:00	36.0000	36.0000	105.762	17043.86	
2/17/2004 00:30:00	37.0000	37.0000	105.757	17043.69	
2/17/2004 01:30:00	38.0000	38.0000	105.759	17043.74	
2/17/2004 02:30:00	39.0000	39.0000	105.759	17043.78	
2/17/2004 03:30:00	40.0000	40.0000	105.760	17043.85	
2/17/2004 04:30:00	41.0000	41.0000	105.759	17043.61	
2/17/2004 05:30:00	42.0000	42.0000	105.762	17043.80	
2/17/2004 06:30:00	43.0000	43.0000	105.761	17043.84	
2/17/2004 07:30:00	44.0000	44.0000	105.766	17044.10	
2/17/2004 08:30:00	45.0000	45.0000	105.763	17043.72	

Company: ANADARKO CANADA CORPORATION
Date of test: 02/15/04 TO 02/17/04
Element serial#: 9804

Well name: ANADARKO NETLA
Location: A-68
Run Depth (KB): 1983.7

TOP RECCRDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
2/17/2004 09:30:00	46.0000	46.0000	105.765	17043.96	
2/17/2004 10:30:00	47.0000	47.0000	105.758	17043.95	
2/17/2004 11:09:00	47.6500	47.6500	105.804	17043.64	
	02/17/2004	11:09:00	OFF BOTTOM		

Remarks:
DEVIATED WELL - OPEN HOLE COMPLETION.

Test by: RAPID

Interpretation by P.D.Q. SERVICES LTD.

Subsurface Pressure Measurements

Company: ANADARKO CANADA CORPORATION
Address: CALGARY, ALBERTA
Field & Pool: NETLA / SLAVE POINT
Type of test: BUILD UP
Prod. Int KB: 1989.44 to 2043.02
Elev. (CF) 649.3 (KB) 654.01
Pool datum:

Well name: ANADARKO NETLA
Location: A-68
Status: GAS
Date of test: 02/15/04 TO 02/17/04
Prod. through: 88.9MM TUBING
Mid-point prod.int. KB: 2016.23
Datum depth of well KB:

Tubing pres: INITIAL: 14426 FIN: 14431
Shut in time: 04/02/02 18:00 HRS
Temperature at run depth: 105.820
Deviated well: Y

Casing pres: 911
Duration of Shut in: EXTENDED
On/off btm: 02/15/04 / 02/17/04
Depths corrected to TVD: Y

Note: All units in metric, depth in meters kb; pressure in kPaa

TOP RECORDER

Element serial#: 9804
Pressure Range: 41369 KPAA
CAL-SCAN ELECTRONIC RECORDER
Latest calibration: 06/11/03
Reading Interval: 20 SECONDS
Gauge started: 02/15/04 10:51
Gauge stopped: 02/17/04 11:42
Run depth (KB): 1983.7

BOTTOM RECORDER

Element serial#: 8042
Pressure range: 68990 KPAA
CAL-SCAN ELECTRONIC RECORDER
Latest calibration: 12/19/03
Reading Interval: : 20 SECONDS
Gauge started: 02/15/04 10:51
Gauge stopped: 02/17/04 11:42
Run depth (KB): 1984.2

BOTTOM RECORDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
	02/15/2004 11:30:00	ON BOTTOM			
2/15/2004 11:30:00	0.0000	0.0000	55.861	16893.03	
2/15/2004 11:30:20	0.0056	0.0056	59.257	16912.44	
2/15/2004 11:30:40	0.0111	0.0111	62.426	16921.27	
2/15/2004 11:31:00	0.0167	0.0167	65.247	16930.58	
2/15/2004 11:31:20	0.0222	0.0222	67.764	16937.04	
2/15/2004 11:32:20	0.0389	0.0389	74.197	16947.53	
2/15/2004 11:32:40	0.0444	0.0444	76.002	16952.90	
2/15/2004 11:33:20	0.0556	0.0556	79.215	16960.95	
2/15/2004 11:34:00	0.0667	0.0667	82.019	16968.20	
2/15/2004 11:34:40	0.0778	0.0778	84.487	16975.13	
2/15/2004 11:35:20	0.0889	0.0889	86.687	16981.24	
2/15/2004 11:36:00	0.1000	0.1000	88.668	16986.71	
2/15/2004 11:36:40	0.1111	0.1111	90.443	16992.26	
2/15/2004 11:37:20	0.1222	0.1222	92.026	16997.49	
2/15/2004 11:38:20	0.1389	0.1389	94.071	17004.74	
2/15/2004 11:39:20	0.1556	0.1556	95.773	17011.10	
2/15/2004 11:40:20	0.1722	0.1722	97.188	17016.64	
2/15/2004 11:41:40	0.1944	0.1944	98.718	17022.72	
2/15/2004 11:43:20	0.2222	0.2222	100.185	17028.67	
2/15/2004 11:45:20	0.2556	0.2556	101.471	17034.15	

Company: ANADARKO CANADA CORPORATION Well name: ANADARKO NETLA
Date of test: 02/15/04 TO 02/17/04 Location: A-68
Element serial#: 8042 Run Depth (KB): 1984.2

BOTTOM RECORDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
2/15/2004 11:48:00	0.3000	0.3000	102.634	17039.23	
2/15/2004 11:53:00	0.3833	0.3833	103.864	17044.37	
2/15/2004 12:30:00	1.0000	1.0000	105.483	17049.15	
2/15/2004 13:30:00	2.0000	2.0000	105.645	17049.29	
2/15/2004 14:30:00	3.0000	3.0000	105.701	17049.28	
2/15/2004 15:30:00	4.0000	4.0000	105.727	17049.26	
2/15/2004 16:30:00	5.0000	5.0000	105.742	17049.24	
2/15/2004 17:30:00	6.0000	6.0000	105.751	17049.23	
2/15/2004 18:30:00	7.0000	7.0000	105.757	17049.22	
2/15/2004 19:30:00	8.0000	8.0000	105.761	17049.20	
2/15/2004 20:30:00	9.0000	9.0000	105.765	17049.20	
2/15/2004 21:30:00	10.0000	10.0000	105.767	17049.19	
2/15/2004 22:30:00	11.0000	11.0000	105.769	17049.19	
2/15/2004 23:30:00	12.0000	12.0000	105.771	17049.16	
2/16/2004 00:30:00	13.0000	13.0000	105.772	17049.17	
2/16/2004 01:30:00	14.0000	14.0000	105.774	17049.17	
2/16/2004 02:30:00	15.0000	15.0000	105.774	17049.16	
2/16/2004 03:30:00	16.0000	16.0000	105.775	17049.19	
2/16/2004 04:30:00	17.0000	17.0000	105.776	17049.18	
2/16/2004 05:30:00	18.0000	18.0000	105.777	17049.17	
2/16/2004 06:30:00	19.0000	19.0000	105.777	17049.18	
2/16/2004 07:30:00	20.0000	20.0000	105.778	17049.17	
2/16/2004 08:30:00	21.0000	21.0000	105.778	17049.18	
2/16/2004 09:30:00	22.0000	22.0000	105.779	17049.18	
2/16/2004 10:30:00	23.0000	23.0000	105.779	17049.18	
2/16/2004 11:30:00	24.0000	24.0000	105.779	17049.19	
2/16/2004 12:30:00	25.0000	25.0000	105.779	17049.18	
2/16/2004 13:30:00	26.0000	26.0000	105.780	17049.17	
2/16/2004 14:30:00	27.0000	27.0000	105.780	17049.18	
2/16/2004 15:30:00	28.0000	28.0000	105.780	17049.16	
2/16/2004 16:30:00	29.0000	29.0000	105.780	17049.18	
2/16/2004 17:30:00	30.0000	30.0000	105.781	17049.19	
2/16/2004 18:30:00	31.0000	31.0000	105.781	17049.17	
2/16/2004 19:30:00	32.0000	32.0000	105.781	17049.19	
2/16/2004 20:30:00	33.0000	33.0000	105.782	17049.17	
2/16/2004 21:30:00	34.0000	34.0000	105.782	17049.20	
2/16/2004 22:30:00	35.0000	35.0000	105.782	17049.20	
2/16/2004 23:30:00	36.0000	36.0000	105.782	17049.18	
2/17/2004 00:30:00	37.0000	37.0000	105.782	17049.20	
2/17/2004 01:30:00	38.0000	38.0000	105.782	17049.18	
2/17/2004 02:30:00	39.0000	39.0000	105.782	17049.18	
2/17/2004 03:30:00	40.0000	40.0000	105.783	17049.19	
2/17/2004 04:30:00	41.0000	41.0000	105.783	17049.21	
2/17/2004 05:30:00	42.0000	42.0000	105.783	17049.19	
2/17/2004 06:30:00	43.0000	43.0000	105.783	17049.20	
2/17/2004 07:30:00	44.0000	44.0000	105.783	17049.20	
2/17/2004 08:30:00	45.0000	45.0000	105.783	17049.21	

Company: ANADARKO CANADA CORPORATION
Date of test: 02/15/04 TO 02/17/04
Element serial#: 8042

Well name: ANADARKO NETLA
Location: A-68
Run Depth (KB): 1984.2

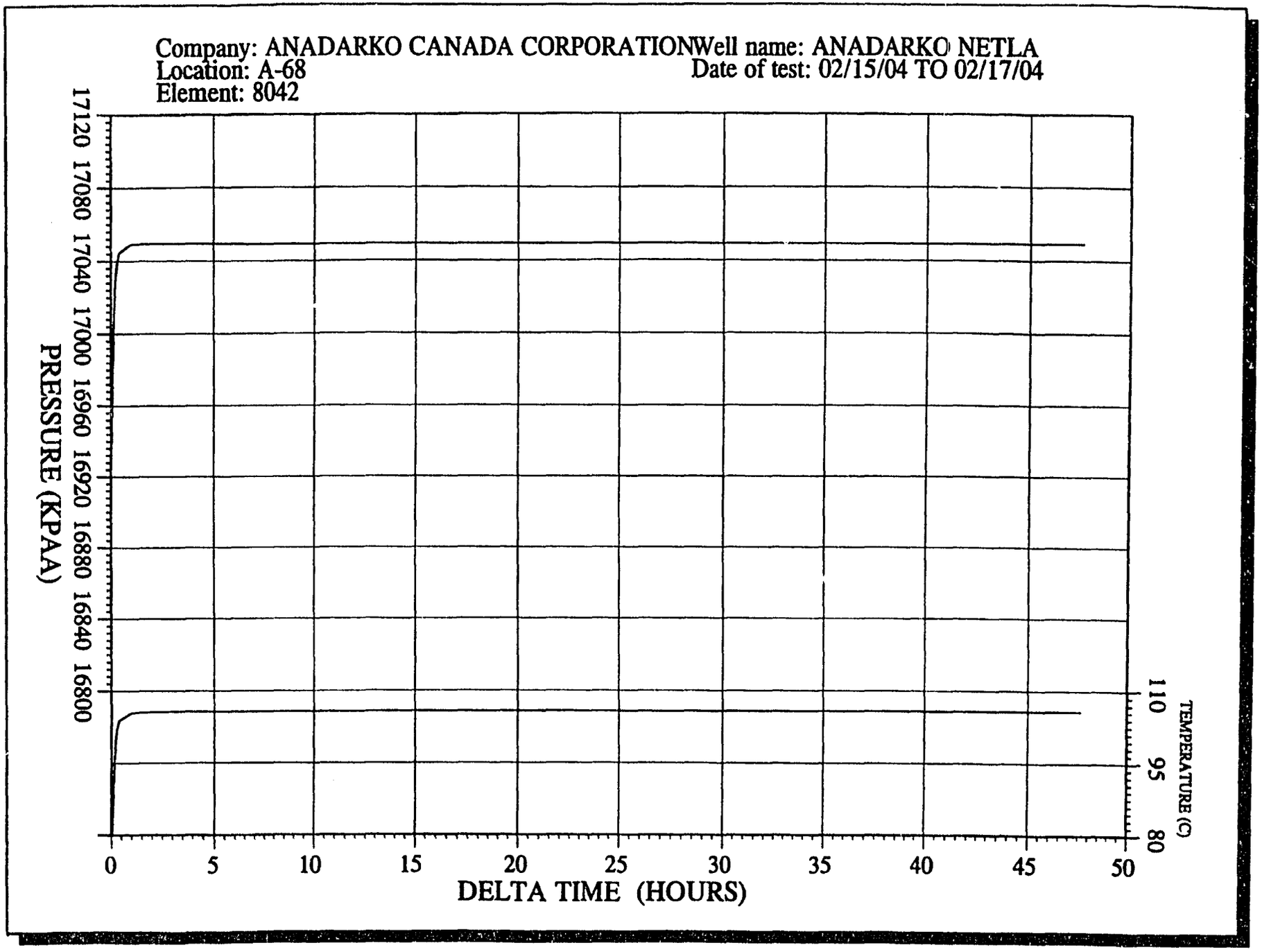
BOTTOM RECORDER

COMMENT REAL TIME	ACCUM. D/T HOURS	EVENT D/T HOURS	TEMPERATURE RUNDEPTH	PRESSURE RUNDEPTH	PRESSURE MIDPNT
2/17/2004 09:30:00	46.0000	46.0000	105.783	17049.21	
2/17/2004 10:30:00	47.0000	47.0000	105.783	17049.21	
2/17/2004 11:09:00	47.6500	47.6500	105.820	17049.24	
	02/17/2004	11:09:00	OFF BOTTOM		

Remarks:
DEVIATED WELL - OPEN HOLE COMPLETION.

Test by: RAPID

Interpretation by P.D.Q. SERVICES LTD.


Company: ANADARKO CANADA CORPORATIONWell name: ANADARKO NETLA
Location: A-68
Date of test: 02/15/04 TO 02/17/04
Element: 8042
PRESSURE (KPAA)
17120 17080 17040 17000 16960 16920 16880 16840 16800
0 5 10 15 20 25 30 35 40 45 50
DELTA TIME (HOURS)
110 95 80
TEMPERATURE (C)

Subsurface Pressure Measurements

Company: ANADARKO CANADA CORPORATION
Address: CALGARY, ALBERTA
Field & Pool: NETLA / SLAVE POINT
Type of test: STATIC GRADIENT
Prod. Int KB: 1989.44 to 2043.02
Elev. (CF) 649.30 (KB) 654.01
Pool datum:

Well name: ANADARKO NETLA
Location: A-68
Status: GAS
Date of test: 02/17/04
Prod. through: 88.9MM TUBING
Mid-point prod.int. KB: 2016.23
Datum depth of well KB:

Tubing pres: 14431
Shut in time: 04/02/02 18:00 HRS
Temperature at run depth: 102.977
Deviated well: Y

Casing pres: 911
Duration of Shut in: EXTENDED
On bottom/off bottom: 13:26/13:35:40
Depths corrected to TVD: Y

Note: All units in metric, depth in meters kb; pressure in kPaa

TOP RECORDER

Element serial#: 9804
Pressure Range: 41369 KPAA
CAL-SCAN ELECTRONIC RECORDER
Latest calibration: 06/11/03

Gauge started: 02/17/04 12:22
Gauge stopped: 02/17/04 13:53
Run depth (KB): 2010.7
Grad. at run depth: 1.198
Pres. at run depth: 17072.7
Pres. at mid point perf.: 17079.4
Pres. at datum depth:

Depth m	Temp DEG.C	Pressure KPAA	Gradient KPA/m
4.2	-12.63	14453.3	0.000
504.2	21.42	15132.1	1.358
1004.0	47.80	15828.9	1.394
1489.9	73.80	16455.2	1.289
1871.9	98.08	16908.8	1.187
1920.8	101.58	16967.0	1.191
1956.1	103.71	17008.4	1.173
1985.7	104.50	17042.8	1.161
2010.7	102.98	17072.7	1.198

Fluid level at N/A
Final pressure on bottom:17072.7 KPAA

BOTTOM RECORDER

Element serial#: 8042
Pressure range: 68990 KPAA
CAL-SCAN ELECTRONIC RECORDER
Latest calibration: 12/19/03

Gauge started: 02/17/04 12:22
Gauge stopped: 02/17/04 13:53
Run depth (KB): 2011.2
Grad. at run depth: 1.408
Pres. at run depth: 17080.5
Pres. at mid point perf.: 17087.6
Pres. at datum depth:

Depth m	Temp DEG.C	Pressure KPAA	Gradient KPA/m
4.7	-5.22	14411.6	0.000
504.7	12.74	15131.3	1.439
1004.5	36.54	15813.1	1.364
1490.4	63.27	16423.2	1.256
1872.4	89.50	16873.2	1.178
1921.3	98.11	16953.8	1.648
1956.6	102.06	17004.9	1.450
1986.2	103.78	17045.3	1.365
2011.2	102.89	17080.5	1.408

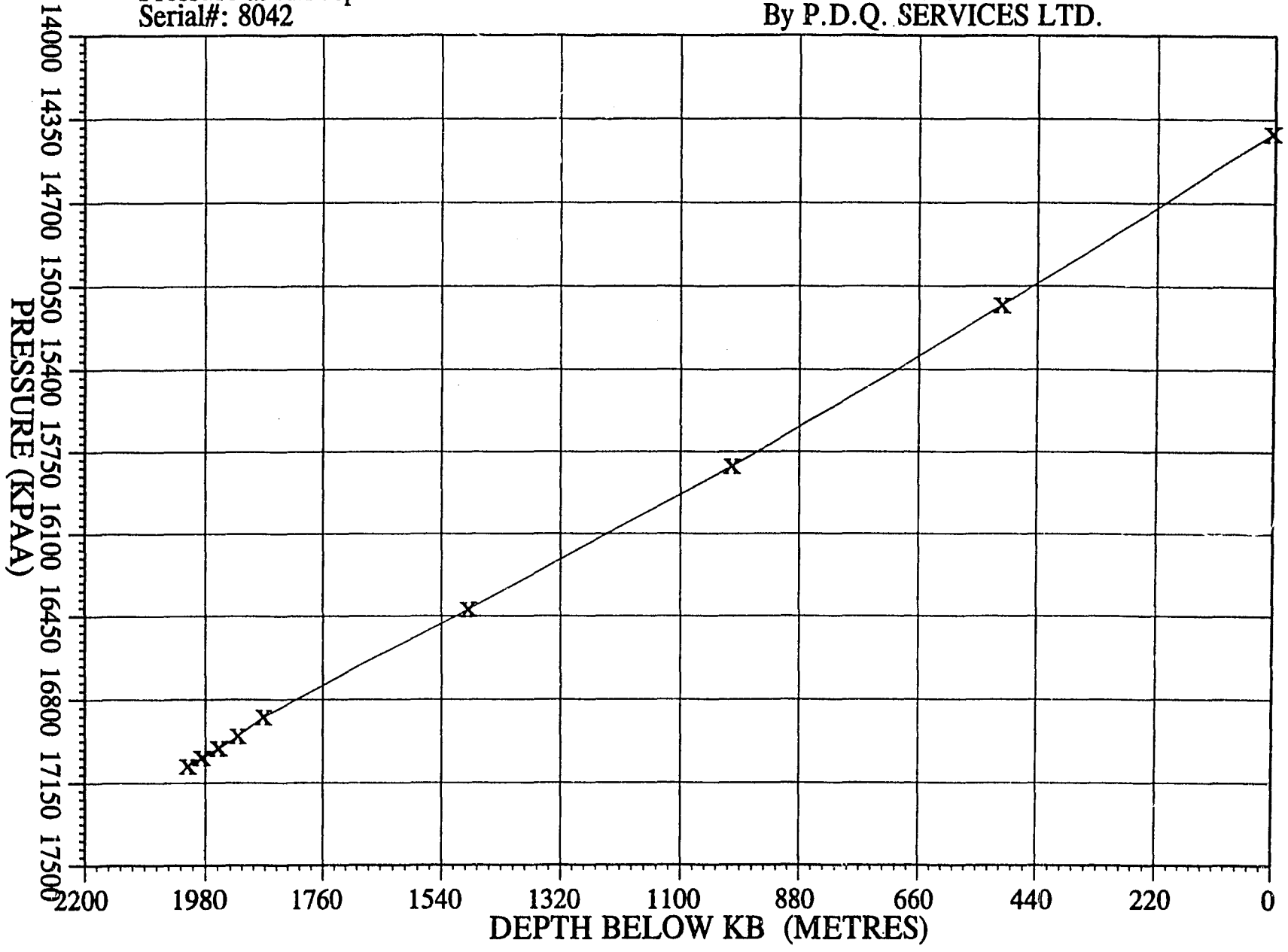
Fluid level at N/A
Final pressure on bottom:17080.5 KPAA

Remarks:
DEVIATED WELL - OPEN HOLE COMPLETION.

Test by: RAPID

Interpretation by P.D.Q. SERVICES LTD.

Company: ANADARKO CANADA CORPORATION
Well name: ANADARKO NETLA
Location: A-68
Date of test: 02/17/04
Pressure at run depth 17080.5
Fluid level N/A
Serial#: 8042
By P.D.Q. SERVICES LTD.



GRADIENT TEST

Drilling Record

OVERSIZED

DOCUMENT

FILMED

ON

35mm

RESISTIVITY/ CONDUCTIVITY

N.E.B. COPY

Schlumberger

Company: ANADARKO CANADA ENERGY
Well: ANADARKO NETLA A-68
Field: NETLA
Province: NORTHWEST TERRITORIES
Measured Depths

PLATFORM EXPRESS
ARRAY INDUCTION
LOG

LOC: A-68 / 60 47' 7.4", 122 41' 38.9"
UWI: 300A686050122300

Elev.: K.B. 654.1 m
G.L. 649.2 m
D.F. 653.8 m

Permanent Datum: GROUND LEVEL — Elev.: 649.2 m
Log Measured From: KELLY BUSHING — 4.9 m above Perm. Datum
Drilling Measured From: KELLY BUSHING

	Run 1	Run 2	Run 3	Run 4
API Serial No.	1006	n/a	n/a	n/a
Logging Date	8-Mar-2002			
Run Number	ONE			
Depth Driller	2028 m			
Schlumberger Depth	2028 m			
Bottom Log Interval	2025.6 m			
Top Log Interval	560 m			
Casing Driller Size @ Depth	244.500 mm @ 560 m	@	@	@
Casing Schlumberger	560 m			
Bit Size	215.000 mm			
Type Fluid In Hole	INVERT			
MUD Density / Viscosity	980 kg/m3 / 52 s			
MUD Fluid Loss / PH				
Source Of Sample	N/A			
RM @ Measured Temperature	@	@	@	@
RMF @ Measured Temperature	@	@	@	@
RMC @ Measured Temperature	@	@	@	@
Source RMF / RMC	N/A / N/A			
RM @ MRT / RMF @ MRT	@ 76 / @ 76	@ / @	@ / @	@ / @
Maximum Recorded Temperatures	76 degC			
Circulation Stopped Time	8-Mar-2002 12:00			
Logger On Bottom Time	21:00			
Unit Number / Location	2031 / GRANDE PRAIRIE			
Recorded By	TYLER MAKSYMCHUK			
Witnessed By	BEN URUWN			

	Run 1	Run 2	Run 3	Run 4
Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Driller Size @ Depth	@	@	@	@
Casing Schlumberger				
Bit Size				
Type Fluid In Hole				
MUD Density / Viscosity				
MUD Fluid Loss / PH				
Source Of Sample				
RM @ Measured Temperature	@	@	@	@
RMF @ Measured Temperature	@	@	@	@
RMC @ Measured Temperature	@	@	@	@
Source RMF / RMC				
RM @ MRT / RMF @ MRT	@ / @	@ / @	@ / @	@ / @
Maximum Recorded Temperatures				
Circulation Stopped Time				
Logger On Bottom Time				
Unit Number / Location				
Recorded By				
Witnessed By				

DEPTH SUMMARY LISTING

Data Created: 8-MAR-2002 20:29:48

Depth System Equipment

	Depth Measuring Device	Tension Device	Logging Cable
Type:	3955	CMTB-GA	Type: 7-46-7-03
Serial Number:	3955	1263	Serial Number: 422
Calibration Date:	19-FEB-2002	24-JAN-2002	Length: 3670 m M
Calibration Number:	4	499	Max Tension: 15000 lbf
Wheel Correction 1:	0 degF	1.000	Calibration Truck: Anchorage Metrocal
Wheel Correction 2:	-5	1.000	Rig Type: LAND
		0.000	

Depth Control Parameters

Log Sequence: First Log In the Well

Rig Up Length At Surface:	0.00 M
Rig Up Length Correction:	0.00 M
Rig Up Length At Bottom:	2035.00 M
Total Zero Check At Surface:	20.25 M

Depth Control Remarks

1. TOOL ZERO AT RB

2.
3.
4.
5.
6.

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OTHER SERVICES
OS1: ARRAY INDUCTION LOG
OS2: COMPENSATED SONIC
OS3: CEMENT VOLUME
OS4: CEMENT BOND INTERFACE
OS5:
OS6:
REMARKS: RUN 1 MAIN PASS
PRESENTATION AND LOGGING INTERVALS AS PER CLIENT REQUEST.
TWO 244.5 MM CENTRALIZERS AND ONE 244.5 MM SCRATCHER SET WITH
TWO 244.5 MM STANDOFFS.

BOWSPRING WITH 3.5 RUBBER STANDOFFS AND 3 CHAPS
TOP OF CEMENT (TOC)

MAIN PASS REPEAT SECTION
PASS 1's REPEAT DISCUSSED WITH HAEL ERE GEOLOGIST AND AGREED TO NO RECORD
PASS 2's REPEAT CANCELLED.
REF. JOB #: 28

RIG: 2031 GRANDE PRAIRIE
ENGR'S: TB/BK/KS, C.TEICHGRAM
OPR'S: T.MAKSYMCHUK, B.URUWN

THANK YOU FOR USING SCHLUMBERGER EVALUATION SERVICES.

SERVICE ORDER #:	RUN 1	700309	RUN 2
PROGRAM VERSION:		1CCG-306	
LOGGED:	START:	STOP:	LOGGED: INTERVAL: START: STOP:

RUN 1

EQUIPMENT DESCRIPTION

RUN 2

SURFACE EQUIPMENT

GSRUJ1
WITM 2DTB3-A

DOWNHOLE EQUIPMENT

LEH-QT 20.84
LEH-QT 1304

DTC-H 19.67 19.95
DTC-H 1060 DTEM
DTCH-MX 5486 TriDeMod
SGC-H 19.04
SGSH-H Gamma Ray
SGS-TM 16.76 19.04

DSLT-FTB 17.36
DSLT-SS 5313
DSLT-SS 5314
DSLT-SS 1006

13.56
13.26
12.96
12.66
USN 25 MM
LSN Standoff
LUR UHR
LUR LHR
DSLT Pad 11.07 11.07

DTA-A
DTA-AE 5313
DTA-AE 5314

AH-107 9.86
AH-107 9.25
AH-107 8.64
EDAC-B
EDAC-B 3977
EDAC-B 3.50

EDAC Cal 5.36

ATF-H 4.88
ATF-MA 145 25 MM
ARRAY Standoff

Inclusion
Inclinometry
Power Sub 2.41

SP SONDE 0.03
EDAC Sta AV
Mandrel
TOOL ZERO 0.00 25 MM
Standoff

MAXIMUM STRING DIAMETER 149 MM
MEASURE POINT OFFSET (MPO) 4.9 M ABOVE PERM. DATUM
ALL LENGTHS IN METERS

Input DLIS Files

DEFAULT	SPLICE_ATT_SONIC_046	FN:1	PRODUCER	09-Mar-2002 01:27 2031.0 M 20.0 M

Output DLIS Files

DEFAULT	ATT_SONIC_3MPUP	FN:59	PRODUCER	09-Mar-2002 01:30
REDUCED	ATT_SONIC_3MPUP	FN:61	PRODUCER	09-Mar-2002 01:30

OP System Version: 10C0-306

ATF-H	SPC-02614-MCL	EDAC-B	SPC-02514-MCL
DTA-A	10C0-306	DSLT-FTB	10C0-306
DTC-H	10C0-306	DSLT-SS	10C0-306

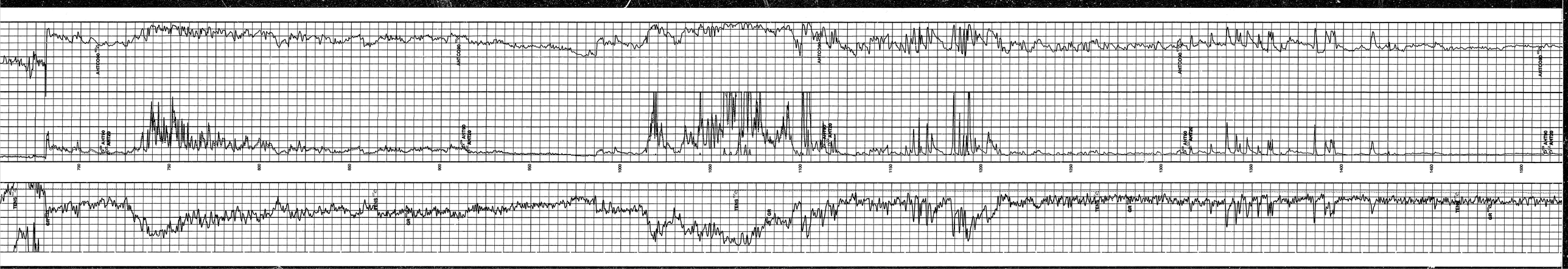
Time Mark Every 60 S

Tension (TENS) (lb000 lbf)	0	10
Gamma Ray (GR) (GAPI)	0	100

1000	AT-C-41 80 Inch Investigation Conductivity (ATCC) (MMHO)	0
0	AT-C-41 80 Inch Investigation (ATCC) (Ohmm)	50
0	AT-R-39 Inch Investigation (ATR) (Ohmm)	50

MAIN PASS / 1:600 SCALE

500	CCL	600
500		600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1100
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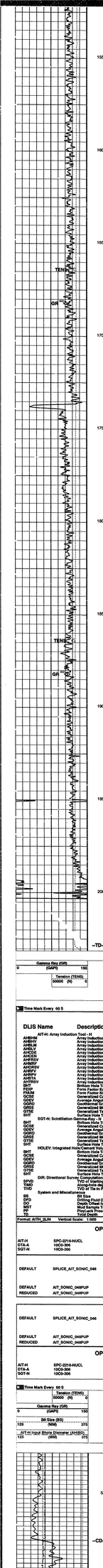


MAIN PASS / 1:600 SCALE

Gamma Ray (GR)	
0 (GAPI)	150
Tension (TEN)	
00000 (lb)	0

AIT-H 20 Inch Investigation (AHTI20)	
0 (OHMM)	80
AIT-H 90 Inch Investigation (AHTI90)	
0 (OHMM)	80
AIT-H 90 Inch Investigation Conductivity (AHTC090)	
1000 (MMHO)	0

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
	AIT-H: Array Induction Tool - H	
AHBHM	Array Induction Borehole Correction Mode	0_ComputedMudResistivity
AHBHV	Array Induction Borehole Correction Code Version Number	800
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four
AHBLV	Array Induction Basic Logs Code Version Number	800
AHCIE	Array Induction Casing Detection Enable	Yes
AHCEN	Array Induction Tool Centering Flag (In Borehole)	Eccentered
AHRFV	Array Induction Mud Resistivity Factor For Four It Resolution	40,70,24,21
AHRMV	Array Induction Mud Resistivity Factor	1
AHORV	Array Induction Response Set Version for One It Resolution	40,70,24,21
AHSFV	Array Induction Radial Profiling Code Version Number	700
AHSPV	Array Induction Radial Parameterization Code Version Number	203
AHTEM	Array Induction Temperature	24 MM
AHTRV	Array Induction Response Set Version for Two It Resolution	40,70,24,21
BHT	Bottom Hole Temperature (used in calculations)	75 DEGC
FINUM	Form Fluid Number	1
FNAM	Form Fluid Name	1
GCSE	Generalized Caliper Selection	CALI
GDEV	Generalized Deviation of Borehole from Normal	0 DEG
GDRO	Generalized Density	0.010227 DCIM
GRSE	Generalized Mud Resistivity Selection	ATR_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	7 DEGC
	SGT-N: Scintillation Gamma Ray - N	
BHT	Bottom Hole Temperature (used in calculations)	75 DEGC
GCSE	Generalized Caliper Selection	CALI
GDEV	Generalized Deviation of Borehole from Normal	0 DEG
GDRO	Generalized Density	0.010227 DCIM
GRSE	Generalized Mud Resistivity Selection	ATR_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	7 DEGC
	HOLEV: Integrated Hole Volume	
BHT	Bottom Hole Temperature (used in calculations)	75 DEGC
GCSE	Generalized Caliper Selection	CALI
GDEV	Generalized Deviation of Borehole from Normal	0 DEG
GDRO	Generalized Density	0.010227 DCIM
GRSE	Generalized Mud Resistivity Selection	ATR_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	7 DEGC
	DIR: Directional Survey	
SPUD	TVD of Starting Point	0 M
TIND	Azimuth/Inclination Point	500.88 M
TVD	TVD Of Tie In Point	500.88 M
TWS	System and Miscellaneous	
BS	Bit Size	215.000 MM
DFD	Drilling Fluid Density	980.00 KJM3
DFV	Mud Viscosity	50 S
MST	Mud Sample Temperature	-2000.00 DEGC
PP	Playback Processing	NORMAL
TD	Total Depth	2035 M

Format: AITH_SLIH Vertical Scale: 1:600 Graphics File Created: 09-Mar-2002 01:39

OP System Version: 10C0-30S

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-FTB	SKX-2146-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

Input DLIS Files

DEFAULT	SPLICE_AIT_SONIC_046	FN:1	PRODUCER	09-Mar-2002 01:27	2031.0 M 20.6 M

Output DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:50	PRODUCER	09-Mar-2002 01:30
REDUCED	AIT_SONIC_048PUP	FN:51	PRODUCER	09-Mar-2002 01:30

Input DLIS Files

DEFAULT	SPLICE_AIT_SONIC_046	FN:1	PRODUCER	09-Mar-2002 01:27	2031.0 M 20.6 M

Output DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:50	PRODUCER	09-Mar-2002 01:30
REDUCED	AIT_SONIC_048PUP	FN:51	PRODUCER	09-Mar-2002 01:30

OP System Version: 10C0-30S

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-FTB	SKX-2146-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

PIP SUMMARY

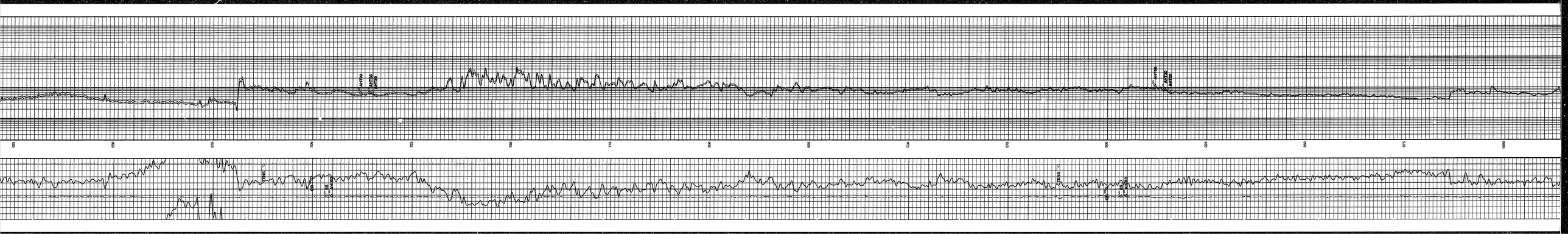
Time Mark Every 60 S

Tension (TEN)	
00000 (lb)	0

Gamma Ray (GR)	
0 (GAPI)	150
Bit Size (BS)	
125 (MM)	375
AIT-H Input Bhole Diameter (AHBSQ)	
125 (MM)	375

AIT-H 90 Inch Investigation (AHTI90)	
0.2 (OHMM)	2000
AIT-H 20 Inch Investigation (AHTI20)	
0.2 (OHMM)	2000
AIT-H 20 Inch Investigation (AHTI20)	
0.2 (OHMM)	2000

MAIN PASS - INDUCTION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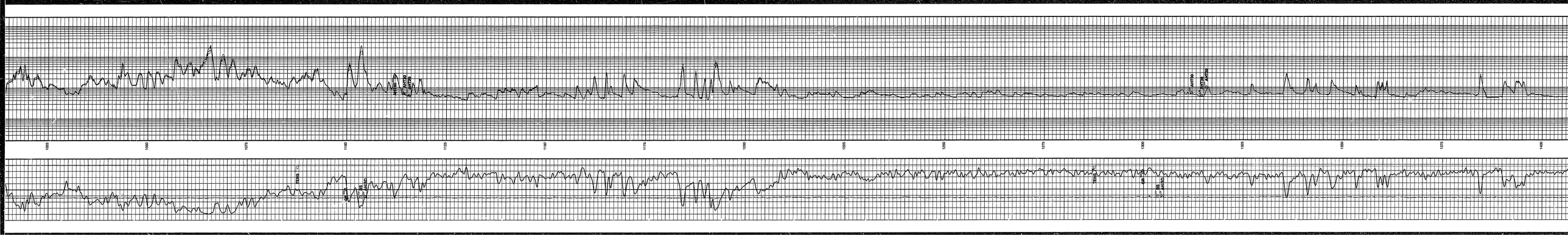
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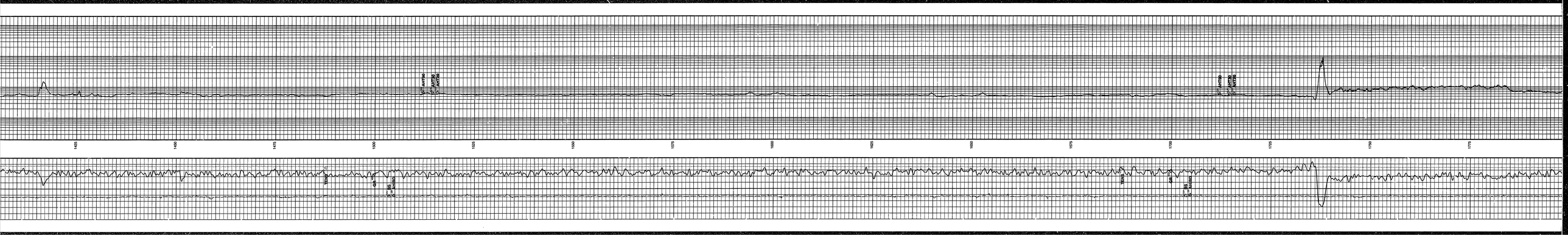
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RS
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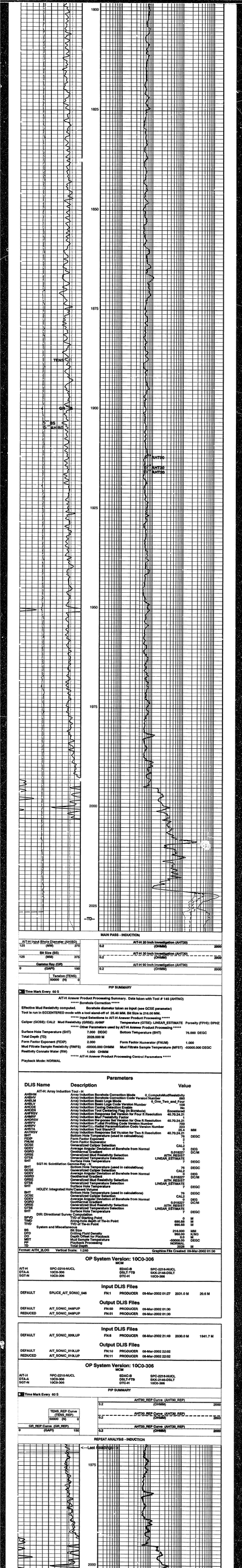


MAIN PASS - INDUCTION

AIT-H Input Bhole Diameter (AHSBD)
125 (MM) 375

Bit Size (BS)
125 (MM) 375

Gamma Ray (GR)
0 (GAPI) 150

Tension (TENS)
40000 (N) 0

AIT-H 20 Inch Investigation (AHT20)
0.2 (OHMM) 2000

AIT-H 30 Inch Investigation (AHT30)
0.2 (OHMM) 2000

AIT-H 90 Inch Investigation (AHT90)
0.2 (OHMM) 2000

PIP SUMMARY

Time Mark Every 60 S

AIT-H Answer Product Processing Summary. Data taken with Tool # 145 (AHTNO)

***** Borehole Correction *****

Effective Mud Resistivity computed. Borehole diameter taken as input (see GCSE parameter)

Tool is run in ECCENTERED mode with a tool stand-off of 25.40 MM. Bit Size is 216.00 MM.

***** Input Selections to AIT-H Answer Product Processing *****

Caliper (GCSE): CALI2 Mud Resistivity (GRSE): AHMR Temperature (OTSE): LINEAR_ESTIMATE Porosity (FPHI): DPHZ

***** Other Parameters used by AIT-H Answer Product Processing *****

Surface Hole Temperature (SHT)	7.000 DEGC	Bottom Temperature (BHT)	76.000 DEGC
Total Depth (TD)	2030.000 M		
Form Factor Exponent (FEXP)	2.000	Form Factor Numerator (FNUM)	1.000
Mud Filtrate Sample Resistivity (RMFS)	-0000.000 OHMM	Mud Filtrate Sample Temperature (MFST)	-0000.000 DEGC
Resistivity Connate Water (RW)	1.000 OHMM		

***** AIT-H Answer Product Processing Control Parameters *****

Playback Mode: NORMAL

Parameters

DLIS Name	Description	Value
AIT-H: Array Induction Tool - H		
AHBHV	Array Induction Borehole Correction Mode	0_ComputeMudResistivity
AHBHV	Array Induction Borehole Correction Code Version Number	693
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four
AHBLV	Array Induction Basic Logs Code Version Number	100
AHCDE	Array Induction Casing Detection Enable	1
AHCEN	Array Induction Tool Centering Flag (In Borehole)	Eccentered
AHERSV	Array Induction Response Set Version for Four ft Resolution	40,70,24,21
AHMRV	Array Induction Mud Resistivity Factor	1
AHORSV	Array Induction Response Set Version for One ft Resolution	40,70,24,21
AHSFV	Array Induction Focused Profiling Code Version Number	700
AHSTV	Array Induction Radial Parameterization Code Version Number	203
AHTHSV	Array Induction Thin Bed Mode	MM
AHTHSV	Array Induction Response Set Version for Two ft Resolution	40,70,24,21
BHT	Bottom Hole Temperature (used in calculations)	76 DEGC
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	1
GCSC	Generalized Caliper Selection	CALI
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.010277 DC/M
GRSE	Generalized Mud Resistivity Selection	AHTH_RESULT
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	7 DEGC
SGT-N: Schlitt		
BHT	Bottom Hole Temperature (used in calculations)	76 DEGC
GCSC	Generalized Caliper Selection	CALI
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.010277 DC/M
GRSE	Generalized Mud Resistivity Selection	AHTH_RESULT
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	7 DEGC
SPVD	TVD of Starting Point	0 M
TIMD	Along-hole depth of Tie-In Point	690.68 M
TIVD	TVD of Tie-In Point	690.68 M
BS	Bit Size	216.000 MM
DFD	Drilling Fluid Density	990.00 K/M3
DMF	Depth Measure for Playback	0.0 M
MST	Mud Sample Temperature	-0000.000 DEGC
PP	Playback Processing	NORMAL
TD	Total Depth	2028 M

Format: AITH_2LOG Vertical Scale: 1:240 Graphics File Created: 09-Mar-2002 01:30

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-TTB	SXK-2146-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

Input DLIS Files

DEFAULT	SPLICE_AIT_SONIC_046	FN:1	PRODUCER	09-Mar-2002 01:27	2031.0 M 20.6 M

Output DLIS Files

DEFAULT	AIT_SONIC_046PUP	FN:50	PRODUCER	09-Mar-2002 01:30
REDUCED	AIT_SONIC_046PUP	FN:51	PRODUCER	09-Mar-2002 01:30

Input DLIS Files

DEFAULT	AIT_SONIC_006LUP	FN:8	PRODUCER	09-Mar-2002 21:49	2030.0 M 1941.7 M

Output DLIS Files

DEFAULT	AIT_SONIC_010LUP	FN:10	PRODUCER	09-Mar-2002 22:02
REDUCED	AIT_SONIC_010LUP	FN:11	PRODUCER	09-Mar-2002 22:02

OP System Version: 10C0-306

MCM

AIT-H	RPC-2210-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-TTB	SXK-2146-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

PIP SUMMARY

Time Mark Every 60 S

AHT90_REP Curve (AHT90_REP)
0.2 (OHMM) 2000

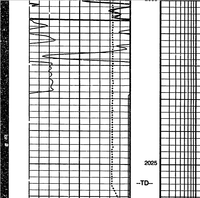
AHT90_REP Curve (AHT90_REP)
0.2 (OHMM) 2000

TENS_REP Curve (TENS_REP)
50000 (N) 0

GR_REP Curve (GR_REP)
0 (GAPI) 150

AHT90_REP Curve (AHT90_REP)
0.2 (OHMM) 2000

REPEAT ANALYSIS - INDUCTION



REPEAT ANALYSIS - INDUCTION

GR_REP Curve (GR_REP)		AHTR0_REP Curve (AHTR0_REP)	
0 (GAPI)	150	0.2 (OHMM)	2000
TENS_REP Curve (TENS_REP)		AHTR5_REP Curve (AHTR5_REP)	
50000 (lb)	0	0.2 (OHMM)	2000
		AHTR0_REP Curve (AHTR0_REP)	
		0.2 (OHMM)	2000

PIP SUMMARY

Time Mark Every 60 S

AIT-H Answer Product Processing Summary. Data taken with Tool # 143 (AHTNO)

***** Borehole Correction *****

Effective Mud Resistivity computed. Borehole diameter taken as input (see GCSE parameter)

Tool is run in ECCENTERED mode with a tool stand-off of 25.40 MM. Bit Size is 216.00 MM.

***** Input Selections to AIT-H Answer Product Processing *****

Caliper (GCSE): CAL2 Mud Resistivity (GRSE): AHMF Temperatures (GTSE): LINEAR_ESTIMATE Porosity (FPHI): DPHZ

***** Other Parameters used by AIT-H Answer Product Processing *****

Surface Hole Temperature (SHT)	7.000 DEGC	Bottom Temperature (BHT)	76.000 DEGC
Total Depth (TD)	2028.000 M		
Form Factor Exponent (FEXP)	2.000	Form Factor Numerator (FNUM)	1.000
Mud Filtrate Sample Resistivity (RMFS)	-60000.000 OHMM	Mud Filtrate Sample Temperature (MFST)	-60000.000 DEGC
Resistivity Connate Water (RW)	1.000 OHMM		

***** AIT-H Answer Product Processing Control Parameters *****

Playback Mode: NORMAL

Parameters

DLIS Name	Description	Value
	AIT-H: Array Induction Tool - H	
AHBHW	Array Induction Borehole Correction Mode	0_CompositeMudResistivity
AHBHV	Array Induction Borehole Correction Code Version Number	400
AHBLW	Array Induction Basic Logs Mode	5_One_Two_and_Four
AHCUV	Array Induction Basic Logs Code Version Number	100
AHRCW	Array Induction Radial Processing Mode	1
AHCRV	Array Induction Tool Centering Flag (In Borehole)	Eccentered
AHRRW	Array Induction Response Set Version for Four ft Resolution	40.70.24.21
AHRRV	Array Induction Response Set Version	0
AHORW	Array Induction Response Set Version for One ft Resolution	40.70.24.21
AHRFV	Array Induction Radial Profiling Code Version Number	300
AHSFV	Array Induction Radial Parameterization Code Version Number	222
AHSTA	Array Induction Tool Standoff	25.4 MM
AHRDV	Array Induction Response Set Version for Two ft Resolution	40.70.24.21
BHT	Bottom Hole Temperature (used in calculations)	76 DEGC
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	1
GCSE	Generalized Caliper Selection	CAL2
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GHGF	Geothermal Gradient	0.015227 DC/M
GRSE	Generalized Mud Resistivity Selection	AHTN_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	7 DEGC
	SGT-H: Scintillation Gamma-Ray - H	
BHT	Bottom Hole Temperature (used in calculations)	76 DEGC
GCSE	Generalized Caliper Selection	CAL2
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GHGF	Geothermal Gradient	0.015227 DC/M
GMSF	Generalized Mud Resistivity Selection	AHTN_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	7 DEGC
	HOLEV: Integrated Hole/Cement Volumes	
BHT	Bottom Hole Temperature (used in calculations)	76 DEGC
GCSE	Generalized Caliper Selection	CAL2
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GHGF	Geothermal Gradient	0.015227 DC/M
GMSF	Generalized Mud Resistivity Selection	AHTN_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	7 DEGC
	System and Miscellaneous	
BS	Bit Size	216.000 MM
DFD	Drilling Fluid Density	980.00 K/M3
DORL	Depth Offset for Repeat Analysis	1.0 M
MRT	Mud Filtrate Temperature	-60000.00 DEGC
TD	Total Depth	2028 M

Format: AITH_REP Vertical Scale: 1:240 Graphics File Created: 08-Mar-2002 22:02

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL	
DTA-A	10C0-306	DIS.T-FTB	SKX-2144-DSLT	
SGT-N	10C0-306	DTC-H	10C0-306	

Input DLIS Files

DEFAULT	AIT_SONIC_009LUP	FN:8	PRODUCER	08-Mar-2002 21:49	2030.0 M	1941.7 M

Output DLIS Files

DEFAULT	AIT_SONIC_010LUP	FN:10	PRODUCER	08-Mar-2002 22:02
REDUCED	AIT_SONIC_010LUP	FN:11	PRODUCER	08-Mar-2002 22:02

Input DLIS Files

DEFAULT	SPLICE_AIT_SONIC_046	FN:1	PRODUCER	09-Mar-2002 01:27	2031.0 M	20.6 M

Output DLIS Files

DEFAULT	AIT_SONIC_046PUP	FN:50	PRODUCER	09-Mar-2002 01:30
REDUCED	AIT_SONIC_046PUP	FN:51	PRODUCER	09-Mar-2002 01:30

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DIS.T-FTB	SKX-2144-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

AIT-H Boosted Borehole Corrected Average Conductivities

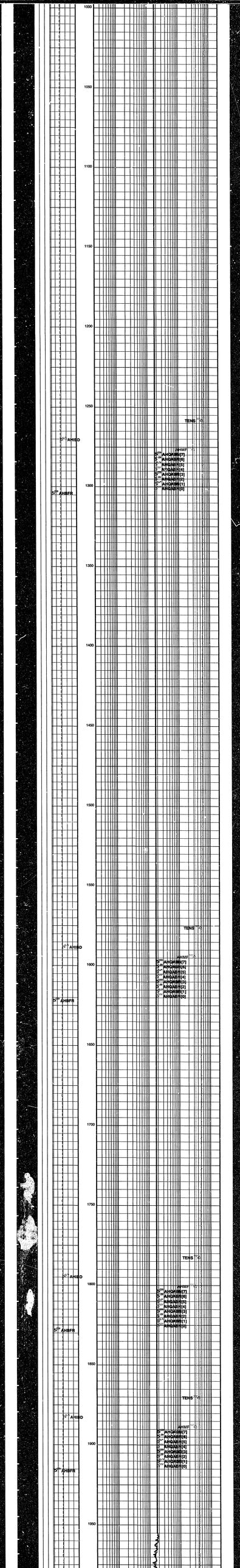
Average performed from depth 5563.50 ft/ 2000.55 m with 19742 samples

A1: 102.984	A2: 168.594	A3: 163.588	A4: 169.190	
A5: 165.583	A6: 169.207	A7: 169.947	A8: 173.624	

PIP SUMMARY

Time Mark Every 60 S

AIT LOG QUALITY CONTROL IMAGE


1000
1050
1100
1150
1200
1250
TENS
AHIED
AHIMF
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AHQAIW[6]
AHQAIW[5]
AHQAIW[4]
AHQAIW[3]
AHQAIW[2]
AHQAIW[1]
AHQAIW[0]
AHBFR
1300
1350
1400
1450
1500
1550
TENS
AHIED
AHIMF
AHQAIW[7]
AHQAIW[6]
AHQAIW[5]
AHQAIW[4]
AHQAIW[3]
AHQAIW[2]
AHQAIW[1]
AHQAIW[0]
AHBFR
1600
1650
1700
1750
TENS
AHIED
AHIMF
AHQAIW[7]
AHQAIW[6]
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AHBFR
1800
1850
TENS
AHIED
AHIMF
AHQAIW[7]
AHQAIW[6]
AHQAIW[5]
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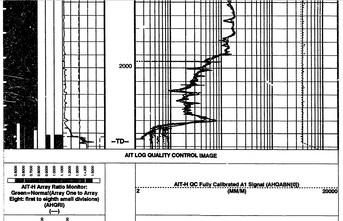
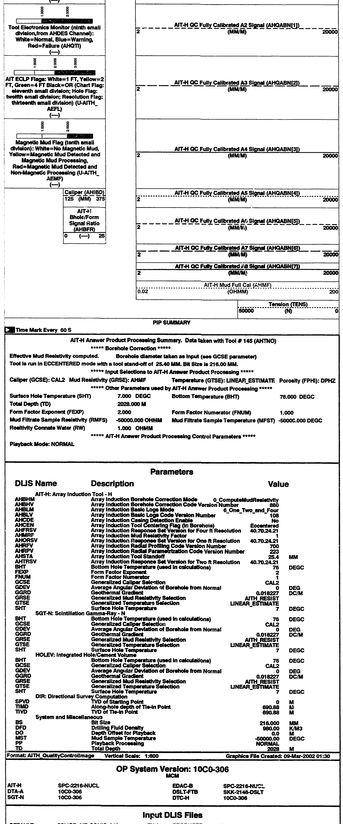
AHBFR
1900
1950



AIT LOG QUALITY CONTROL IMAGE


AIT-H Array Ratio Monitor:
Green=Normal|Array One to Array Eight: first to eighth small divisions)
(AHQR0)
Tool Electronics Monitor (ninth small division,from AHDES Channels: White=Normal, Blue=Warning, Red=Failure (AHQT0)
AIT ECLP Flags: White=1 FT, Yellow=2 FT, Green=4 FT Black=OR (Chart Flag: eleventh small division; Hole Flag: twelfth small division; Resolution Flag: thirteenth and fourteenth) (U-AITF, AHFL)
Magnetic Mud Flag (tenth small division): White=No Magnetic Mud, Yellow=Magnetic Mud Detected and Magnetic Mud Processing Red=Magnetic Mud Detected and Non-Magnetic Mud Processing (U-AITF, AHMF)
Caliper (AHBD) 125 (MM) 375
AIT-H Qc Fully Calibrated A1 Signal (AHQAABN(0)) (MM/M) 2 20000
AIT-H QC Fully Calibrated A2 Signal (AHQAABN(1)) (MM/M) 2 20000
AIT-H QC Fully Calibrated A3 Signal (AHQAABN(2)) (MM/M) 2 20000
AIT-H QC Fully Calibrated A4 Signal (AHQAABN(3)) (MM/M) 2 20000
AIT-H QC Fully Calibrated A5 Signal (AHQAABN(4)) (MM/M) 2 20000
AIT-H QC Fully Calibrated A6 Signal (AHQAABN(5)) (MM/M) 2 20000
AIT-H QC Fully Calibrated A7 Signal (AHQAABN(6)) (MM/M) 2 20000
AIT-H Mud Full Cal (AHMF) (OHMM) 0.02 200
AIT-H Mud Flag (AHMF)
AIT-H Mud Flag (AHMF)
Tension (TENS) (N) 60000 0
AIT-H Mud Flag (AHMF)
AIT-H Mud Flag (AHMF)
AIT-H Mud Flag (AHMF)

Master: 2-Jan-2002 12:58

Array Induction Tool - H Master Calibration

Electronics Calibration Check - Auxillary

Phase	Array Induction SPA Plus MV	Value
Master		994.0
	941.0 (Minimum) 990.5 (Nominal) 1040 (Maximum)	

Phase	Array Induction SPA Zero MV	Value
Master		-0.04961
	-50.00 (Minimum) 0 (Nominal) 50.00 (Maximum)	

Phase	Array Induction Temperature Plus V	Value
Master		0.9209
	0.8700 (Minimum) 0.9150 (Nominal) 0.9600 (Maximum)	

Phase	Array Induction Temperature Zero V	Value
Master		-4.659E-00
	-0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	

Master: 2-Jan-2002 12:58

Array Induction Tool - H Master Calibration

Test Loop Gain Correction

Idx	Value	Test Loop Gain Magnitude V	Value	Phase DEG
0	1.014	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	0.3380	-3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)
1	1.049	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	0.6703	-3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)
2	1.018	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	0.1058	-3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)
3	1.022	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	0.2458	-3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)
4	0.9957	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	-0.001069	-3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)
5	1.000	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	-0.2747	-3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)
6	1.012	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	0.1140	-3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)
7	1.029	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	-0.1002	-3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)

Master: 2-Jan-2002 12:58

Array Induction Tool - H Master Calibration

Sonde Error Correction

Idx	Value	R Sonde Error Correction MM/M	Value	X Sonde Error Correction MM/M
0	-84.75	-231.0 (Minimum) -56.00 (Nominal) 119.0 (Maximum)	-37.52	-2250 (Minimum) 0 (Nominal) 2250 (Maximum)
1	172.3	114.0 (Minimum) 159.0 (Nominal) 204.0 (Maximum)	-30.37	-625.0 (Minimum) 0 (Nominal) 625.0 (Maximum)
2	113.3	68.00 (Minimum) 111.0 (Nominal) 156.0 (Maximum)	29.89	-350.0 (Minimum) 0 (Nominal) 350.0 (Maximum)
3	64.86	39.00 (Minimum) 64.00 (Nominal) 89.00 (Maximum)	-64.65	-250.0 (Minimum) 0 (Nominal) 250.0 (Maximum)
4	27.02	15.00 (Minimum) 25.00 (Nominal) 35.00 (Maximum)	22.90	-63.00 (Minimum) 0 (Nominal) 63.00 (Maximum)
5	12.46	4.000 (Minimum) 14.00 (Nominal) 24.00 (Maximum)	8.220	-50.00 (Minimum) 0 (Nominal) 50.00 (Maximum)
6	9.269	5.000 (Minimum) 10.00 (Nominal) 15.00 (Maximum)	4.360	-30.00 (Minimum) 0 (Nominal) 30.00 (Maximum)
7	-1.929	-5.000 (Minimum) 0 (Nominal) 5.000 (Maximum)	1.570	-30.00 (Minimum) 0 (Nominal) 30.00 (Maximum)

Master: 2-Jan-2002 12:58

Array Induction Tool - H Master Calibration

Mud Gain Correction

Idx	Value	Coarse - Mag, Real, Imag	Value	Fine - Mag, Real, Imag
0	0.9880	0.8000 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	0.9866	0.8000 (Minimum) 1.000 (Nominal) 1.200 (Maximum)
1	0.9920	0.8000 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	0.9899	0.8000 (Minimum) 1.000 (Nominal) 1.200 (Maximum)
2	0.9920	0.8000 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	0.9899	0.8000 (Minimum) 1.000 (Nominal) 1.200 (Maximum)

Master: 2-Jan-2002 12:58

Eccentered Dual Axis Caliper / Equipment Identification

Primary Equipment:		
Eccentered Dual Axis Sonde - BA	EDAS - BA	30
Eccentered Dual Axis Electronics (cartri	EDAE - A	13
Auxiliary Equipment:		
Electronics Cartridge Housing	ECH - KC	1377

Scintillation Gamma-Ray - N / Equipment Identification

Primary Equipment:	
Scintillation Gamma Cartridge	SGC - TB
Scintillation Gamma Detector	SGD - TAA
Auxiliary Equipment:	
Scintillation Gamma Housing	SGH - K
Gamma Source Radioactive	GSR - U/Y

Scintillation Gamma-Ray - N Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		23.43	Before		170.4	Before		165.0
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			154.9 (Minimum) 170.4 (Nominal) 185.9 (Maximum)			150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)	

Before: 8-Mar-2002 20:11

Company: ANADARKO CANADA ENERGY

Well: ANADARKO NETLA A-68

Field: NETLA

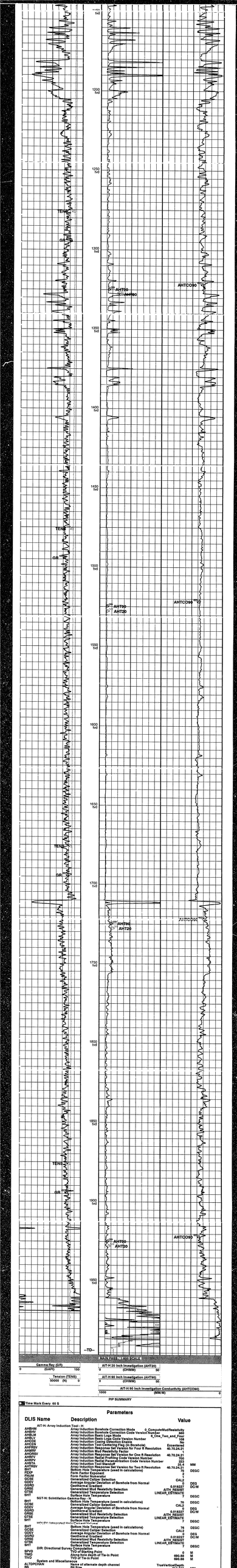
Province: NORTHWEST TERRITORIES

Service Order:

Schlumberger

PLATFORM EXPRESS
ARRAY INDUCTION
LOG

LEGIBILITY
OF LOG
COULD VARY
DUE TO
COLOR
CONTENT



PIP SUMMARY

Parameters

DLIS Name	Description	Value
	AIT-H: Array Induction Tool - H	
AHBHM	Array Induction Borehole Correction Mode	0_ComputedMudResistivity
AHBLV	Array Induction Basic Logs Definition Code Version Number	7002
AHBLM	Array Induction Basic Logs Mode	4_One_Two_and_Four
AHBLV	Array Induction Basic Logs Code Version Number	106
AHCDN	Array Induction Casing Detection Enable	No
AHECC	Array Induction Eccentering Code for Borehole	Eccentered
AHFRSV	Array Induction Response Set Version for Four R Resolution	40.70.24.21
AHMRV	Array Induction Mud Resistivity Factor	1
AHRSV	Array Induction Response Set Version for One R Resolution	40.70.24.21
AHRPV	Array Induction Radial Profiling Code Version Number	700
AHSPV	Array Induction Shoulder Correction Code Version Number	203
AHSTA	Array Induction Tool Standoff	25.4
AHTRSV	Array Induction Response Set Version for Two R Resolution	40.70.24.21
BHT	Bottom Hole Temperature (used in calculations)	DEGC
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	1
GCDV	Gamma Ray Calibration Selection	CAL2
GGEV	Average Angular Deviation of Borehole from Normal	0
GGRD	Geothermal Gradient	0.018227 DCM
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	7 DEGC
	SGT-N: Scintillation Gamma Ray - N	
BHT	Bottom Hole Temperature (used in calculations)	76 DEGC
GCDV	Gamma Ray Calibration Selection	CAL2
GGEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DCM
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	7 DEGC
	MPH-EM: Integrated Multiple Physics - EM	
BHT	Bottom Hole Temperature (used in calculations)	76 DEGC
GCDV	Gamma Ray Calibration Selection	CAL2
GGEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DCM
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	7 DEGC
	DIR: Directional Survey Computation	
SPID	TVD of Starting Point	0 M
TIED	TVD of Tie-in Point Tie-In Point	699.88 M
TVD	TVD of Tie-in Point	699.88 M
	System and Miscellaneous	
ALTDCHAN	Name of alternate depth channel	TrueVerticalDepth
RB	Relative Bearing	***

BS	BR Size	216.000	MM
DFD	Drilling Fluid Density	9804.00	KG/M3
DFPH	Depth Reset For Playback	0.0	M
MST	Mud Sample Temperature	-60000.00	DEGC
PBYRADP	Use alternate depth channel for playback	YES	
PP	Playback Processing	NORMAL	
TD	Total Depth	2029	M

Format: AITH_2LIN Vertical Scale: 1:600 Graphics File Created: 09-Mar-2002 01:39

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-FTB	SKC-2146-DSLT
SGT-F	10C0-306	DTC-H	10C0-306

Indexed to True Vertical Depth in this Playback

Input DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:50	PRODUCER	09-Mar-2002 00:30	2031.0 M	22.1 M

Output DLIS Files

DEFAULT	AIT_SONIC_007PUP	FN:7	PRODUCER	09-Mar-2002 01:38		
REDUCED	AIT_SONIC_007PUP	FN:8	PRODUCER	09-Mar-2002 01:39		

Indexed to True Vertical Depth in this Playback

Input DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:50	PRODUCER	09-Mar-2002 00:30	2031.0 M	22.1 M

Output DLIS Files

DEFAULT	AIT_SONIC_007PUP	FN:7	PRODUCER	09-Mar-2002 01:38		
REDUCED	AIT_SONIC_007PUP	FN:8	PRODUCER	09-Mar-2002 01:39		

Indexed to True Vertical Depth in this Playback

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-FTB	SKC-2146-DSLT
SGT-H	10C0-306	DTC-H	10C0-306

PIP SUMMARY

Time Mark Every 60 S

Tension (TENS)
50000 (lb) 0

Gamma Ray (GR)
0 (GAPI) 150

AIT-H 60 Inch Investigation (AHT60)
0.2 (OHMM) 2000

AIT-H 30 Inch Investigation (AHT30)
0.2 (OHMM) 2000

AIT-H 20 Inch Investigation (AHT20)
0.2 (OHMM) 2000

MAIN PASS @ 1:600 (HOLE)

Last Reading

CD

CH

TBHS

AHT60

AHT30

AHT20

500 tvd

575 tvd

600 tvd

625 tvd

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675 tvd

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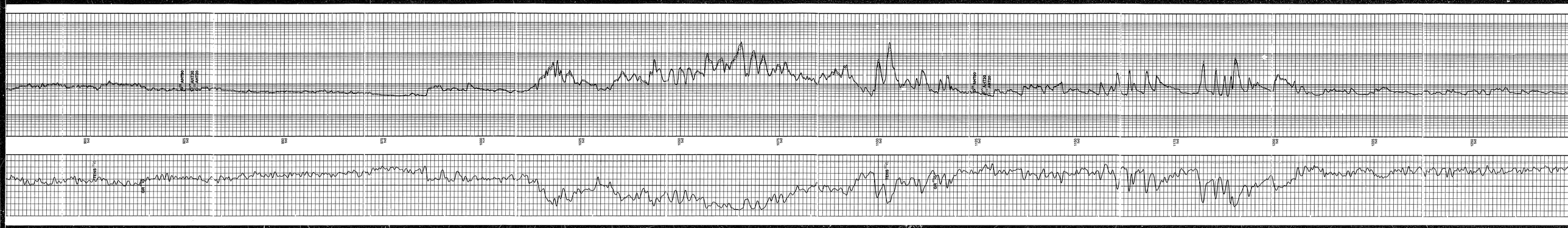
825 tvd

850 tvd

875 tvd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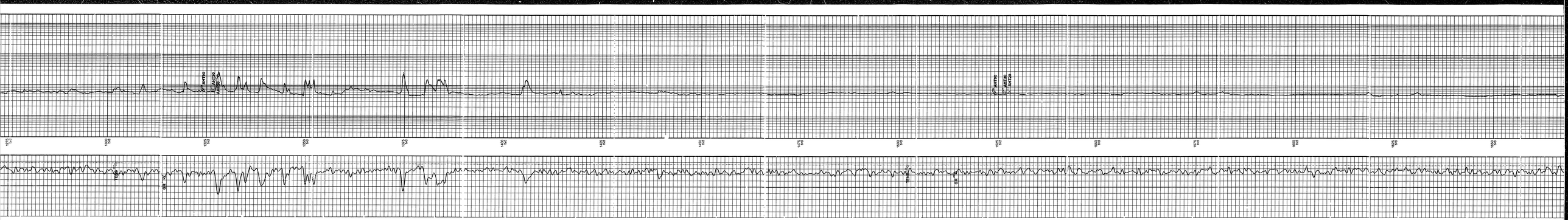
ΔHTRD
ΔHTRD
ΔHTRP
ΔHTRD
ΔHTRD
ΔHTRP
ΔHTRD
ΔHTRD


TEMP
GSR
TEMP
GSR

Time Mark Every 60 S

PIP SUMMARY

AIT-H Answer Product Processing Summary. Data taken with Tool # 145 (AHTNO)

***** Borehole Correction *****

Effective Mud Resistivity computed. Borehole diameter taken as input (see GCSE parameter)

Tool is run in ECCENTERED mode with a tool stand-off of 25.40 MM. Bit Size is 215.00 MM.

***** Input Selections to AIT-H Answer Product Processing *****

Caliper (GCSE): CAL2 Mud Resistivity (GRSE): AHMF Temperature (GTSE): LINEAR_ESTIMATE Porosity (FPHI): DPHZ

***** Other Parameters used by AIT-H Answer Product Processing *****

Surface Hole Temperature (SHT)	7.000 DEGC	Bottom Temperature (BHT)	76.000 DEGC
Total Depth (TD)	2038.000 M		
Form Factor Exponent (FEXP)	2.000	Form Factor Numerator (FNUM)	1.000
Mud Filtrate Sample Resistivity (RMFS)	-50000.000 OHMM	Mud Filtrate Sample Temperature (MFST)	-50000.000 DEGC
Resistivity Connate Water (RW)	1.000 OHMM		

***** AIT-H Answer Product Processing Control Parameters *****

Playback Mode: NORMAL

Parameters

DLIS Name	Description	Value
AIT-H: Array Induction Tool - H		
AHMHM	Array Induction Borehole Correction Mode	2_ComputedMudResistivity
AHMHV	Array Induction Borehole Correction Code Version Number	1
AHMLM	Array Induction Basic Logs Mode	6_One_Two_and_Four
AHDLV	Array Induction Basic Logs Code Version Number	104
AHSEN	Array Induction Sensor Selection	1
AHCEN	Array Induction Cent Centering (eg. on borehole)	EXCENTERED
AHHRSV	Array Induction Responses Set Version for Four R Resolution	40,70,24,31
AHHRV	Array Induction Responses Version Number	1
AHORSV	Array Induction Response Set Version for One R Resolution	40,70,24,31
AHRFV	Array Induction Radial Profiling Code Version Number	700
AHRPV	Array Induction Radial Parameterization Code Version Number	223
AHSTD	Array Induction Tool Standoff	25.4 MM
AHTSV	Array Induction Responses Set Version for Two R Resolution	40,70,24,31
BHT	Bottom Hole Temperature (used in calculations)	76 DEGC
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	1
GCSE	Generalized Caliper Selection	CAL2
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GRGE	Generalized Gauge	0.018227 DCM
GRMF	Generalized Mud Resistivity Selection	AHTK_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	7 DEGC
SGT-N: Scintillation Gamma-Ray - N		
BHT	Bottom Hole Temperature (used in calculations)	76 DEGC
GCSE	Generalized Caliper Selection	CAL2
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GRGE	Generalized Gauge	0.018227 DCM
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	7 DEGC
HOLEV: Integrated Hole/Cement Volumes		
BHT	Bottom Hole Temperature (used in calculations)	76 DEGC
GCSE	Generalized Caliper Selection	CAL2
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GRGE	Generalized Gauge	0.018227 DCM
GRMF	Generalized Mud Resistivity Selection	AHTK_RESIST

MUDC	Generalized Mud Conductivity	0.018227	DC/M
MURW	Generalized Mud Resistivity Selection	AIT-H_ESTIMATE	
OTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	7	DEGC
	Directional Survey:		
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-In Point	660.88	M
TIVD	TVD of Tie-In Point	660.88	M
	System and Miscellaneous:		
ALTDPCHAN	Name of alternate depth channel	TrueVerticalDepth	
BS	Bit Size	216.000	MM
DFD	Drilling Fluid Density	980.00	K/M3
MST	Mud Sample Temperature	0.0	M
MSTT	Mud Sample Temperature	00000.00	DEGC
PBVSADP	Use alternate depth channel for playback	YES	
PD	Playback Processing	NORMAL	
TD	Total Depth	2038	M

Format: AIT_XLOG Vertical Scale: 1:240 Graphics File Created: 09-Mar-2002 01:39

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-FTB	SKX-2148-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

Indexed to True Vertical Depth in this Playback

Input DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:50	PRODUCER	09-Mar-2002 00:30	2031.0 M 22.1 M

Output DLIS Files

DEFAULT	AIT_SONIC_007PUP	FN:7	PRODUCER	09-Mar-2002 01:38
REDUCED	AIT_SONIC_007PUP	FN:8	PRODUCER	09-Mar-2002 01:39

Input DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:50	PRODUCER	09-Mar-2002 00:30	2031.0 M 22.1 M

Output DLIS Files

DEFAULT	AIT_SONIC_007PUP	FN:7	PRODUCER	09-Mar-2002 01:38
REDUCED	AIT_SONIC_007PUP	FN:8	PRODUCER	09-Mar-2002 01:39

Indexed to True Vertical Depth in this Playback

True Vertical Depth Log

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-FTB	SKX-2148-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

AIT-H Boosted Borehole Corrected Average Conductivities

Average performed from depth: 648.5 to 650.81 m with 10216 samples

A1:	162.931	A2:	168.539	A3: 163.634
A5:	166.526	A6:	169.242	A7: 169.890
				A4: 166.138
				A8: 173.567

PIP SUMMARY

Time Mark Every 60 S

Tension (TENS) (N)
00000 0

AIT-H Mud Full Cal (AHMF) (OHMM)
0.02 200

AIT-H QC Fully Calibrated A7 Signal (AHQA8N(7)) (MM/M)
2 20000

AIT-H QC Fully Calibrated A6 Signal (AHQA8N(6)) (MM/M)
2 20000

AIT-H QC Fully Calibrated A5 Signal (AHQA8N(5)) (MM/M)
2 20000

AIT-H QC Fully Calibrated A4 Signal (AHQA8N(4)) (MM/M)
2 20000

AIT-H QC Fully Calibrated A3 Signal (AHQA8N(3)) (MM/M)
2 20000

AIT-H QC Fully Calibrated A2 Signal (AHQA8N(2)) (MM/M)
2 20000

AIT-H QC Fully Calibrated A1 Signal (AHQA8N(1)) (MM/M)
2 20000

AIT-H Bhole/Form Signal Ratio (AHBFR)
0 20

Caliper (AHBD) 125 (MM) 375

Magnetic Mud Flag (tenth small division): White=No Magnetic Mud; Yellow=Magnetic Mud Detected and Non-Magnetic Processing; Red=Magnetic Mud Detected and Non-Magnetic Processing (U-AITH_AEMF)

AIT SELF Flags: White=1 FT, Yellow=2 FT, Green=5 FT, Cyan=Logging Speed (eleventh small division; Hole Flag: twelfth small division; Resolution Flag: thirteenth small division) (U-AITH_AEFL)

Tool Electronics Monitor (ninth small division,from ANOSS Channel): White=Normal, Blue=Warning, Red=Failure (ANGTI)

AIT-H Array Ratio Monitor: Green=Normal(Array One to Array Eight first to eighth small divisions) (AHQRN)

Tension (TENS) (N)
00000 0

AIT-H Mud Full Cal (AHMF) (OHMM)
0.02 200

AIT-H QC Fully Calibrated A7 Signal (AHQA8N(7)) (MM/M)
2 20000

AIT-H QC Fully Calibrated A6 Signal (AHQA8N(6)) (MM/M)
2 20000

AIT-H QC Fully Calibrated A5 Signal (AHQA8N(5)) (MM/M)
2 20000

AIT-H QC Fully Calibrated A4 Signal (AHQA8N(4)) (MM/M)
2 20000

AIT-H QC Fully Calibrated A3 Signal (AHQA8N(3)) (MM/M)
2 20000

AIT-H QC Fully Calibrated A2 Signal (AHQA8N(2)) (MM/M)
2 20000

AIT-H QC Fully Calibrated A1 Signal (AHQA8N(1)) (MM/M)
2 20000

Measured Depth (M)

True Vertical Depth (M)

550 tvd

600 tvd

650 tvd

700 tvd

750 tvd

800 tvd

850 tvd

900 tvd

950 tvd

1000 tvd

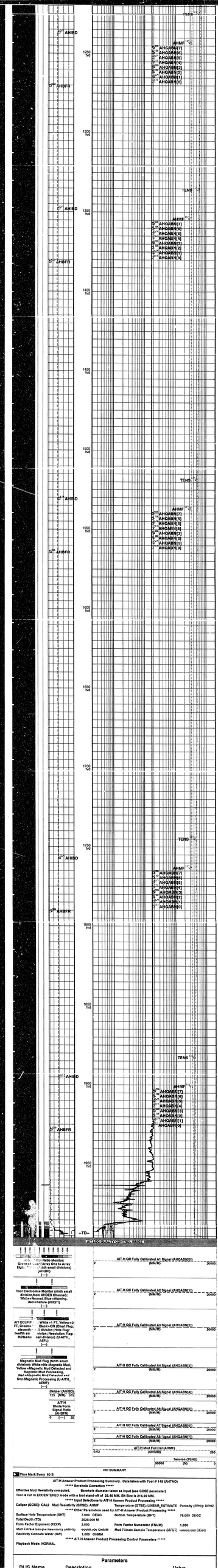
1050 tvd

1100 tvd

1150 tvd

1200 tvd

-CD-


TENS
AHIED
AHMF
AHQABW[7]
AHQABW[6]
AHQABW[5]
AHQABW[4]
AHQABW[3]
AHQABW[2]
AHQABW[1]
AHQABW[0]
AHBFR
1250 hrd
1300 hrd
1350 hrd
1400 hrd
1450 hrd
1500 hrd
1550 hrd
1600 hrd
1650 hrd
1700 hrd
1750 hrd
1800 hrd
1850 hrd
1900 hrd
1950 hrd
--TD--
Ratio Monitor
Green= Array One to Array Eight within small division(AHORD)
Tool Electrolite Monitor (ninth small division,from AHDEB Channel) White=Normal, Blue=Warning, Red=Failure (AHQTT)
AIT ECLP F= FT, Green= eleventh + tenth sm. Shiteeno
White=1 FT, Yellow=2 Black=ION (Start Flag: 3 division; Hole Flag: 4 division; Resolution: 1 sub division) (2- AITH_ AEFL)
Magnetic Mud Flag (tenth small division): White=No Magnetic Mud, Yellow=Mud Detected and Magnetic Mud Processing Red=Magnetic Mud Detected and Non-Magnetic Processing (2-AITH_ AEMF)
Caliber (AHBD) 12in (MM) 31in
AIT-H Stand-Off Signal Ratio (AHSFR)
0 (---) 25
AIT-H QC Fully Calibrated A1 Signal (AHQABN[0])
AIT-H QC Fully Calibrated A2 Signal (AHQABN[1])
AIT-H QC Fully Calibrated A3 Signal (AHQABN[2])
AIT-H QC Fully Calibrated A4 Signal (AHQABN[3])
AIT-H QC Fully Calibrated A5 Signal (AHQABN[4])
AIT-H QC Fully Calibrated A6 Signal (AHQABN[5])
AIT-H QC Fully Calibrated A7 Signal (AHQABN[6])
AIT-H QC Fully Calibrated A8 Signal (AHQABN[7])
AIT-H Mud Full Cal (AHMF)
(OHMM)
Tension (TENS)
(N)
2
20000
0.02
200
50000
0
Time Mark Every 60 S
PIP SUMMARY
AIT-H Answer Product Processing Summary. Data taken with Tool # 146 (AHTNO)
***** Borehole Correction *****
Effective Mud Resistivity computed. Borehole diameter taken as input (see GCSE parameter)
Tool is run in ECCENTERED mode with a tool stand-off of 25.40 MM. Bit Size is 215.00 MM.
***** Input Selections to AIT-H Answer Product Processing *****
Caliper (GCSE): CAL2 Mud Resistivity (GRSE): AHMF Temperature (GTSE): LINEAR_ESTIMATE Porosity (FPHI): DPHZ
***** Other Parameters used by AIT-H Answer Product Processing *****
Surface Hole Temperature (SHT) 7.000 DEGC Bottom Temperature (BHT) 76.000 DEGC
Total Depth (TD) 2028.000 M
Form Factor Exponent (FEXP) 2.000 Form Factor Numerator (FNUM) 1.000
Mud mixture sample resistivity (AHFR) -99999.000 OHMM Mud Filtrate Sample Temperature (MFST) -99999.000 DEGC
Reactivity Connate Water (RW) 1.000 OHMM
***** AIT-H Answer Product Processing Control Parameters *****
Playback Mode: NORMAL
Parameters
DLIS Name Description Value

DLIS Name	Description	Value
MT-H: Array Induction Tool - H		
AHBHM	Array Induction Borehole Correction Mode	0_ComputeMudResistivity
AHBHW	Array Induction Borehole Correction Code Version Number	65.70.24.21
AHBLM	Array Induction Basic Logs Mode	1_One_Two_and_Four
AHBLV	Array Induction Basic Logs Code Version Number	109
AHCDC	Array Induction Casing Detection Enable	No
AHCDW	Array Induction Casing Detection Code Version Number	Econometrics
AHFRW	Array Induction Resistivity Factor Code Version for Four R Resolution	65.70.24.21
AHMRF	Array Induction Mud Resistivity Factor	0
AHRFW	Array Induction Resistivity Factor Code Version for One R Resolution	65.70.24.21
AHRPV	Array Induction Radial Processing Code Version Number	700
AHRPW	Array Induction Radial Performance Code Version Number	2
AHSTA	Array Induction Tool Standoff	25.4 MM
AHTRW	Array Induction Response Set Version for Two R Resolution	65.70.24.21
FEDC	Front Eccentralizer Caliper used to measure	0 DEGC
FEDD	Form Factor Exposure	0
FNUM	Form Factor Numerator	0
GDAT	Geodetic Datum Definition	CALC
GDEC	Average Angular Deviation of Borehole from Normal	0 DEG
GDRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Bed Resistivity Selection	ATR_ISOSOT
GTMC	Generalized Temperature Selection	LINEAR_ESTIMATE
GTMU	Surface Hole Temperature	7 DC^C
SGT-N: Schlitt/an Gamma Ray - N		
BHT	Bottom Hole Temperature (used in calculations)	70 DEGC
DATE	Bottom Hole Temperature Selection	CALC
GDEC	Average Angular Deviation of Borehole from Normal	0 DEG
GDRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Bed Resistivity Selection	ATR_ISOSOT
GTMC	Generalized Temperature Selection	LINEAR_ESTIMATE
GTMU	Surface Hole Temperature	7 DEGC
HOLEV: Integrated Hole/Cement Volume		
BHT	Bottom Hole Temperature (used in calculations)	70 DEGC
DATE	Bottom Hole Temperature Selection	CALC
GDEC	Average Angular Deviation of Borehole from Normal	0 DEG
GDRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Bed Resistivity Selection	ATR_ISOSOT
GTMC	Generalized Temperature Selection	LINEAT_ESTIMATE
GTMU	Surface Hole Temperature	7 DEGC
DIR: Directional Survey Computation		
DMD	TVD of Starting Point	0 M
TIED	Measured Depth of Tie-in Point	860.88 M
TIVD	TVD of Tie-in Point	860.88 M
System and Miscellaneous		
ALTDPCHAN	Name of alternate depth channel	TrueVerticalDepth
BS	Bit Size	254.000 MM
DFD	Drilling Fluid Density	560.00 K/M3
HO	Depth Offset For Hole	0 M
MD	Measured Depth Offset Channel	-0000000.00 DEGC
PBVSADP	Use alternate depth channel for playback	0 DEGC
SF	Playback Processing	NORMAL
TD	Total Depth	3038 M

Format: AITH_QualityControl.exp Vertical Scale: 1:600 Graphics File Created: 09-Mar-2002 01:39

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-FTB	SKK-2146-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

True Vertical Depth Log

Indexed to True Vertical Depth in this Playback

Input DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:50	PRODUCER	09-Mar-2002 00:30	2031.0 M 22.1 M

Output DLIS Files

DEFAULT	AIT_SONIC_007PUP	FN:7	PRODUCER	09-Mar-2002 01:28
REDUCED	AIT_SONIC_007PUP	FN:8	PRODUCER	09-Mar-2002 01:29

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Array Induction Tool - H Wellsite Calibration - Electronics Calibration Check - Thru Cal Mag. & Phase							
Master: 2-Jun-2002 12:58 Before: 9-Mar-2002 20:13							
Thru Cal Magnitude - 1	0	0.0196	0.0202	N/A	N/A	N/A	V
Thru Cal Magnitude - 2	0	0.274	0.2827	N/A	N/A	N/A	V
Thru Cal Magnitude - 3	0	0.6306	0.6270	N/A	N/A	N/A	V
Thru Cal Magnitude - 4	0	0.7172	0.7247	N/A	N/A	N/A	V
Thru Cal Magnitude - 5	0	1.337	1.342	N/A	N/A	N/A	V
Thru Cal Magnitude - 6	0	1.939	1.960	N/A	N/A	N/A	V
Thru Cal Magnitude - 7	0	1.402	1.423	N/A	N/A	N/A	V
Phase - 1	0	50.20	51.35	N/A	N/A	N/A	DEG
Phase - 2	0	48.04	48.98	N/A	N/A	N/A	DEG
Phase - 3	0	46.44	46.94	N/A	N/A	N/A	DEG
Phase - 4	0	44.41	45.61	N/A	N/A	N/A	DEG
Phase - 5	0	39.03	39.20	N/A	N/A	N/A	DEG
Phase - 6	0	37.37	37.58	N/A	N/A	N/A	DEG
Phase - 7	0	36.10	37.37	N/A	N/A	N/A	DEG
Phase - 8	0	33.69	33.69	N/A	N/A	N/A	DEG
Array Induction Tool - H Wellsite Calibration - Electronics Calibration Check - Auxiliary							
Master: 2-Jun-2002 12:58 Before: 9-Mar-2002 20:13							
Array Induction SPA Plus	990.5	994.0	994.7	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	0.0481	-0.00082	N/A	N/A	N/A	MV
Array Induction Temperature Ps	0.9150	0.9009	0.9214	N/A	N/A	N/A	V
Array Induction Temperature Zero	0	-0.00054659	-0.00054417	N/A	N/A	N/A	V
Array Induction Tool - H Wellsite Calibration - Test Loop Gain Correction							
Master: 2-Jun-2002 12:58							
Test Loop Gain Magnitude - 1	0	0.014	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 1	0	1.049	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 2	0	1.016	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 3	0	1.022	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 4	0	1.000	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 5	0	1.000	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 6	0	1.012	N/A	N/A	N/A	N/A	V
Phase - 0	0	1.029	N/A	N/A	N/A	N/A	DEG
Phase - 1	0	0.3260	N/A	N/A	N/A	N/A	DEG
Phase - 2	0	0.2498	N/A	N/A	N/A	N/A	DEG
Phase - 3	0	0.1099	N/A	N/A	N/A	N/A	DEG
Phase - 4	0	0.0000	N/A	N/A	N/A	N/A	DEG
Phase - 5	0	-0.0459	N/A	N/A	N/A	N/A	DEG
Phase - 6	0	0.1147	N/A	N/A	N/A	N/A	DEG
Phase - 7	0	0.1140	N/A	N/A	N/A	N/A	DEG
Phase - 8	0	0.1052	N/A	N/A	N/A	N/A	DEG
Array Induction Tool - H Wellsite Calibration - Sonde Error Correction							
Master: 2-Jun-2002 12:58							
R Sonde Error Correction - 0	0	-64.75	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 1	0	172.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 2	0	113.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 3	0	88.32	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 4	0	27.02	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 5	0	12.46	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 6	0	9.269	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 7	0	4.369	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 0	0	-37.52	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 1	0	30.37	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 2	0	29.89	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 3	0	30.09	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 4	0	22.93	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 5	0	8.320	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 6	0	4.382	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 7	0	1.970	N/A	N/A	N/A	N/A	MM/M
Array Induction Tool - H Wellsite Calibration - Mud Gain Correction							
Master: 2-Jun-2002 12:58							
Coarse - Mag. Real, Imag. - 0	0	0.9660	N/A	N/A	N/A	N/A	
Coarse - Mag. Real, Imag. - 1	0	0.9600	N/A	N/A	N/A	N/A	
Coarse - Mag. Real, Imag. - 2	0	0.9602	N/A	N/A	N/A	N/A	
Fine - Mag. Real, Imag. - 0	0	0.9999	N/A	N/A	N/A	N/A	
Fine - Mag. Real, Imag. - 1	0	0.9999	N/A	N/A	N/A	N/A	
Fine - Mag. Real, Imag. - 2	0	0.9998	N/A	N/A	N/A	N/A	
Eccentred Dual Axis Caliper Wellsite Calibration - Caliper 1 Calibration							
Before: 9-Mar-2002 19:52							
Caliper 1 Small Ring	203.2	N/A	67.83	N/A	N/A	N/A	MM
Caliper 1 Large Ring	304.8	N/A	132.2	N/A	N/A	N/A	MM
Eccentred Dual Axis Caliper Wellsite Calibration - Caliper 2 Calibration							
Before: 9-Mar-2002 19:52							
Caliper 2 Small Ring	203.2	N/A	33.34	N/A	N/A	N/A	MM
Caliper 2 Large Ring	304.8	N/A	54.00	N/A	N/A	N/A	MM
Scintillation Gamma Ray - N Wellsite Calibration - Detector Calibration							
Before: 9-Mar-2002 20:13							
Gamma Ray Low / Bkd.	170.4	N/A	170.4	N/A	N/A	15.49	GAPI
Gamma Ray (Calibrated)	169.0	N/A	165.0	N/A	N/A	15.00	UAPI

Array Induction Tool - H / Equipment Identification

Primary Equipment:	
Array Induction Base	AHRM - A
Array Induction Sonde	AHS - BA 145
Auxiliary Equipment:	

Array Induction Tool - H Wellsite Calibration
Electronics Calibration Check - Thru Cal Mag. & Phase

Nb	Phase	Value	Thru Cal Magnitude V	Value	Phase DEG	Nominal
1	Master	0.0196	0.6306	50.20	0.6306	71.00
	Before	0.0202		51.35		
2	Master	0.274	0.7172	48.04	0.7172	70.00
	Before	0.2827		50.28		
3	Master	0.6306	1.337	46.44	1.337	66.00
	Before	0.6270		46.94		
4	Master	0.7172	1.939	44.41	1.939	65.00
	Before	0.7247		45.61		
5	Master	1.337	1.402	39.03	1.402	59.00
	Before	1.342		39.20		
6	Master	1.939	1.402	37.37	1.402	57.00
	Before	1.960		37.58		
7	Master	1.939	1.402	36.10	1.402	57.00
	Before	1.960		37.37		
8	Master	1.402	1.415	32.11	1.415	53.00
	Before	1.423		33.69		

Master: 2-Jun-2002 12:58 Before: 9-Mar-2002 20:13

Array Induction Tool - H Wellsite Calibration
Electronics Calibration Check - Auxiliary

Phase	Array Induction SPA Plus MV	Value	Array Induction SPA Zero MV	Value
Master	994.0	Master	-0.0481	
Before	994.7	Before	-0.00082	
Master	990.5	Value	-49.50	0.9009
Before	994.0	Minimum	0.9009	Maximum
Phase Array Induction Temperature Plus V	Value	Phase Array Induction Temperature Zero V	Value	
Master	0.9009	Master	-0.00054659	
Before	0.9214	Before	-0.00054417	
Value	0.9150	Value	-0.00054659	
Minimum	0.9009	Minimum	-0.00054659	Maximum

Master: 2-Jun-2002 12:58 Before: 9-Mar-2002 20:13

Array Induction Tool - H Wellsite Calibration
Test Loop Gain Correction

Nb	Value	Test Loop Gain Magnitude V	Value	Phase DEG	Value
0	1.014	1.000	1.000	0.3260	0.3260
		0.9500	1.050	0.3260	0.3260
		Minimum	Maximum	Minimum	Maximum
1	1.049	1.000	1.050	0.8703	0.8703
		0.9500	1.050	0.8703	0.8703
		Minimum	Maximum	Minimum	Maximum
2	1.016	1.000	1.050	0.1099	0.1099
		0.9500	1.050	0.1099	0.1099
		Minimum	Maximum	Minimum	Maximum
3	1.022	1.000	1.050	0.2498	0.2498
		0.9500	1.050	0.2498	0.2498
		Minimum	Maximum	Minimum	Maximum
4	0.9957	1.000	1.050	-0.001369	0.0000
		0.9500	1.050	0.0000	0.0000
		Minimum	Maximum	Minimum	Maximum
5	1.000	1.000	1.050	-0.2747	-0.0459
		0.9500	1.050	-0.2747	-0.0459
		Minimum	Maximum	Minimum	Maximum
6	1.012	1.000	1.050	0.1140	0.1140
		0.9500	1.050	0.1140	0.1140
		Minimum	Maximum	Minimum	Maximum
7	1.029	1.000	1.050	-0.1002	0.1052
		0.9500	1.050	-0.1002	0.1052
		Minimum	Maximum	Minimum	Maximum

Master: 2-Jun-2002 12:58

Array Induction Tool - H Wellsite Calibration
Sonde Error Correction

Nb	Value	R Sonde Error Correction MM/M	Value	X Sonde Error Correction MM/M	Value
0	-64.75	-127.5	-37.52	-127.5	-37.52
	-127.5	-64.50	119.5	-64.50	119.5
	Minimum	Minimum	Maximum	Minimum	Maximum
1	172.3	119.5	224.5	119.5	224.5
	119.5	119.5	224.5	119.5	224.5
	Minimum	Minimum	Maximum	Minimum	Maximum
2	113.3	88.32	111.5	88.32	111.5
	88.32	88.32	111.5	88.32	111.5
	Minimum	Minimum	Maximum	Minimum	Maximum
3	88.32	88.32	88.32	88.32	88.32
	88.32	88.32	88.32	88.32	88.32
	Minimum	Minimum	Maximum	Minimum	Maximum
4	27.02	15.00	27.02	22.90	27.02
	15.00	15.00	27.02	22.90	27.02
	Minimum	Minimum	Maximum	Minimum	Maximum
5	12.46	4.000	14.00	4.000	14.00
	4.000	4.000	14.00	4.000	14.00
	Minimum	Minimum	Maximum	Minimum	Maximum
6	9.269	4.000	15.00	4.000	15.00
	4.000	4.000	15.00	4.000	15.00
	Minimum	Minimum	Maximum	Minimum	Maximum
7	4.369	4.000	5.000	4.000	5.000
	4.000	4.000	5.000	4.000	5.000
	Minimum	Minimum	Maximum	Minimum	Maximum

Master: 2-Jun-2002 12:58

Array Induction Tool - H Master Calibration
Mud Gain Correction

Nb	Value	Coarse - Mag. Real, Imag.	Value	Fine - Mag. Real, Imag.	Value
0	0.9660	0.9600	1.000	0.9999	1.000
		0.9500	1.050	0.9500	1.050
		Minimum	Maximum	Minimum	Maximum
1	0.9600	0.9600	1.000	0.9999	1.000
		0.9500	1.050	0.9500	1.050
		Minimum	Maximum	Minimum	Maximum
2	0.9602	0.9600	1.000	0.9998	1.000
		0.9500	1.050	0.9500	1.050
		Minimum	Maximum	Minimum	Maximum

Master: 2-Jun-2002 12:58

Array Induction Tool - H Master Calibration
Electronics Calibration Check - Thru Cal Mag. & Phase

Nb	Phase	Value	Thru Cal Magnitude V	Value	Phase DEG	Nominal
0	Master	0.0196	0.6306	50.20	0.6306	71.00
1	Master	0.274	0.7172	48.04	0.7172	70.00
2	Master	0.6306	1.337	46.44	1.337	66.00
3	Master	0.7172	1.939	44.41	1.939	65.00
4	Master	1.337	1.402	39.03	1.402	59.00
5	Master	1.939	1.402	37.37	1.402	57.00
6	Master	1.939	1.402	36.10	1.402	57.00
7	Master	1.402	1.415	32.11	1.415	53.00
		60.00 %	1.402	60.00	Total	60.00
		Minimum	Nominal	Maximum	Minimum	Maximum

Master: 2-Jun-2002 12:58

Array Induction Tool - H Master Calibration
Test Loop Gain Correction

Nb	Value	Test Loop Gain Magnitude V	Value	Phase DEG	Value
0	1.014	1.000	1.000	0.3260	0.3260
		0.9500	1.050	0.3260	0.3260
		Minimum	Maximum	Minimum	Maximum
1	1.049	1.000	1.050	0.8703	0.8703
		0.9500	1.050	0.8703	0.8703
		Minimum	Maximum	Minimum	Maximum
2	1.016	1.000	1.050	0.1099	0.1099
		0.9500	1.050	0.1099	0.1099
		Minimum	Maximum	Minimum	Maximum
3	1.022	1.000	1.050	0.2498	0.2498
		0.9500	1.050	0.2498	0.2498
		Minimum	Maximum	Minimum	Maximum
4	0.9957	1.000	1.050	-0.001369	0.0000
		0.9500	1.050	0.0000	0.0000
		Minimum	Maximum	Minimum	Maximum
5	1.000	1.000	1.050	-0.2747	-0.0459
		0.9500	1.050	-0.2747	-0.0459
		Minimum	Maximum	Minimum	Maximum
6	1.012	1.000	1.050	0.1140	0.1140
		0.9500	1.050	0.1140	0.1140
		Minimum	Maximum	Minimum	Maximum
7	1.029	1.000	1.050	-0.1002	0.1052
		0.9500	1.050	-0.1002	0.1052
		Minimum	Maximum	Minimum	Maximum

Master: 2-Jun-2002 12:58

Array Induction Tool - H Master Calibration
Sonde Error Correction

Nb	Value	R Sonde Error Correction MM/M	Value	X Sonde Error Correction MM/M	Value
0	-64.75	-127.5	-37.52	-127.5	-37.52
	-127.5	-64.50	119.5	-64.50	119.5
	Minimum	Minimum	Maximum	Minimum	Maximum
1	172.3	119.5	224.5	119.5	224.5
	119.5	119.5	224.5	119.5	224.5
	Minimum	Minimum	Maximum	Minimum	Maximum
2	113.3	88.32	111.5	88.32	111.5
	88.32	88.32	111.5	88.32	111.5
	Minimum	Minimum	Maximum	Minimum	Maximum
3	88.32	88.32	88.32	88.32	88.32
	88.32	88.32	88.32	88.32	88.32
	Minimum	Minimum	Maximum	Minimum	Maximum
4	27.02	15.00	27.02	22.90	27.02
	15.00	15.00	27.02	22.90	27.02
	Minimum	Minimum	Maximum	Minimum	Maximum
5	12.46	4.000	14.00	4.000	14.00
	4.000	4.000	14.00	4.000	14.00
	Minimum	Minimum	Maximum	Minimum	Maximum
6	9.269	4.000	15.00	4.000	15.00
	4.000	4.000	15.00	4.000	15.00
	Minimum	Minimum	Maximum	Minimum	Maximum
7	4.369	4.000	5.000	4.000	5.000
	4.000	4.000	5.000	4.000	5.000
	Minimum	Minimum	Maximum	Minimum	Maximum

Master: 2-Jun-2002 12:58

Array Induction Tool - H Master Calibration
Mud Gain Correction

Nb	Value	Coarse - Mag. Real, Imag.	Value	Fine - Mag. Real, Imag.	Value
0	0.9660	0.9600	1.000	0.9999	1.000
		0.9500	1.050	0.9500	1.050
		Minimum	Maximum	Minimum	Maximum
1	0.9600	0.9600	1.000	0.9999	1.000
		0.9500	1.050	0.9500	1.050
		Minimum	Maximum	Minimum	Maximum
2	0.9602	0.9600	1.000	0.9998	1.000
		0.9500	1.050	0.9500	1.050
		Minimum	Maximum	Minimum	Maximum

Master: 2-Jun-2002 12:58

Eccentred Dual Axis Caliper / Equipment identification

Primary Equipment:	
Eccentered Dual Axis Sonde - BA	ECAS - BA 30
Eccentered Dual Axis Electronics (cart)	ECAE - A 15
Auxiliary Equipment:	
Electronics Cartridge Housing	ECH - AC 1377

Scintillation Gamma Ray - N / Equipment identification

Primary Equipment:	
Scintillation Gamma Ray Sonde	SGS - AA 1377
Auxiliary Equipment:	

Scintillation Gamma Cartridge	SGC - TB
Scintillation Gamma Detector	SGD - TAA
Auxiliary Equipment:	
Scintillation Gamma Housing	SGH - K
Gamma Source Radioactive	GSR - U/Y

Scintillation Gamma-Ray - N Wellsite Calibration												
Detector Calibration												
Phase	Gamma Ray Background GAPI			Value	Phase	Gamma Ray (Jig - Bkg) GAPI			Value	Phase	Gamma Ray (Calibrated) GAPI			Value
Before				23.43	Before				170.4	Before				165.0
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)			154.9 (Minimum)	170.4 (Nominal)	185.9 (Maximum)			150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)		
Before: 6-Mar-2002 20:11														

Directional Survey Manually-Entered Inclinometry Summary

Tie In Point :	Measured Depth	True Vertical Depth	North Departure	East Departure
	690.88 M	690.88 M	-0.20 M	-0.62 M

Depth	Deviation	Azimuth	True Vertical Depth	North Departure	East Departure
559.00 M	0.00 DEG	0.00 DEG	559.00 M	-0.03 M	0.03 M
564.76 M	0.30 DEG	196.50 DEG	564.76 M	-0.03 M	0.02 M
594.66 M	0.30 DEG	246.10 DEG	594.66 M	-0.15 M	-0.08 M
642.73 M	0.20 DEG	278.80 DEG	642.73 M	-0.18 M	-0.29 M
690.88 M	0.60 DEG	257.00 DEG	690.88 M	-0.20 M	-0.62 M
738.90 M	1.10 DEG	1.00 DEG	738.89 M	0.23 M	-1.06 M
767.70 M	2.10 DEG	14.30 DEG	767.68 M	1.03 M	-0.95 M
796.50 M	2.50 DEG	5.50 DEG	796.46 M	2.17 M	-0.75 M
806.10 M	2.40 DEG	0.20 DEG	806.05 M	2.58 M	-0.73 M
815.60 M	2.00 DEG	354.70 DEG	815.54 M	2.94 M	-0.75 M
825.30 M	1.80 DEG	345.50 DEG	825.24 M	3.26 M	-0.80 M
834.80 M	1.60 DEG	356.80 DEG	834.73 M	3.53 M	-0.85 M
854.10 M	1.20 DEG	338.60 DEG	854.03 M	3.99 M	-0.94 M
863.70 M	0.90 DEG	355.70 DEG	863.63 M	4.16 M	-0.98 M
892.60 M	1.00 DEG	61.40 DEG	892.52 M	4.56 M	-0.76 M
902.20 M	1.70 DEG	110.60 DEG	902.12 M	4.57 M	-0.54 M
911.85 M	2.10 DEG	130.30 DEG	911.76 M	4.40 M	-0.27 M
921.40 M	2.80 DEG	140.40 DEG	921.31 M	4.11 M	0.02 M
931.11 M	2.80 DEG	133.70 DEG	931.00 M	3.77 M	0.34 M
940.77 M	2.20 DEG	125.00 DEG	940.66 M	3.50 M	0.66 M
950.37 M	2.50 DEG	125.00 DEG	950.25 M	3.27 M	0.99 M
960.04 M	2.40 DEG	112.00 DEG	959.91 M	3.08 M	1.35 M
969.70 M	2.50 DEG	107.00 DEG	969.56 M	2.94 M	1.74 M
979.31 M	3.00 DEG	109.90 DEG	979.16 M	2.79 M	2.18 M
988.90 M	3.20 DEG	111.60 DEG	988.73 M	2.61 M	2.66 M
998.50 M	3.90 DEG	107.40 DEG	998.32 M	2.41 M	3.22 M
1008.10 M	4.50 DEG	104.30 DEG	1007.89 M	2.22 M	3.90 M
1017.70 M	4.80 DEG	100.50 DEG	1017.46 M	2.05 M	4.66 M
1027.29 M	5.10 DEG	103.70 DEG	1027.01 M	1.88 M	5.47 M
1036.89 M	5.40 DEG	102.60 DEG	1036.57 M	1.68 M	6.32 M
1046.54 M	5.60 DEG	103.20 DEG	1046.18 M	1.47 M	7.22 M
1056.18 M	6.00 DEG	105.80 DEG	1055.77 M	1.23 M	8.17 M
1065.90 M	6.90 DEG	105.20 DEG	1065.43 M	0.94 M	9.22 M
1075.55 M	7.70 DEG	106.40 DEG	1075.00 M	0.60 M	10.40 M
1085.21 M	8.50 DEG	106.00 DEG	1084.56 M	0.22 M	11.71 M
1094.87 M	9.50 DEG	123.10 DEG	1094.10 M	-0.41 M	13.07 M
1104.52 M	9.30 DEG	115.60 DEG	1103.62 M	-1.18 M	14.45 M
1114.17 M	9.50 DEG	123.10 DEG	1113.14 M	-1.95 M	15.82 M
1123.72 M	9.80 DEG	127.70 DEG	1122.56 M	-2.88 M	17.12 M
1131.31 M	10.40 DEG	130.00 DEG	1130.03 M	-3.71 M	18.16 M
1142.96 M	10.90 DEG	131.90 DEG	1141.48 M	-5.12 M	19.78 M
1152.54 M	11.40 DEG	132.80 DEG	1150.88 M	-6.37 M	21.15 M
1162.13 M	11.90 DEG	137.10 DEG	1160.27 M	-7.74 M	22.52 M
1171.71 M	12.90 DEG	137.10 DEG	1169.63 M	-9.25 M	23.92 M
1181.33 M	13.50 DEG	137.10 DEG	1178.99 M	-10.86 M	25.42 M
1190.99 M	13.80 DEG	137.10 DEG	1188.38 M	-12.53 M	26.97 M
1200.64 M	13.90 DEG	140.50 DEG	1197.75 M	-14.26 M	28.49 M
1210.29 M	14.30 DEG	144.70 DEG	1207.11 M	-16.13 M	29.92 M
1219.96 M	14.60 DEG	148.90 DEG	1216.47 M	-18.15 M	31.24 M
1229.61 M	15.10 DEG	151.20 DEG	1225.80 M	-20.29 M	32.47 M
1239.23 M	16.10 DEG	151.00 DEG	1235.07 M	-22.56 M	33.73 M
1248.33 M	17.00 DEG	154.20 DEG	1243.79 M	-24.86 M	34.92 M
1258.41 M	16.90 DEG	158.00 DEG	1253.43 M	-27.55 M	36.11 M
1268.07 M	17.10 DEG	160.00 DEG	1262.67 M	-30.18 M	37.12 M
1277.74 M	16.10 DEG	162.40 DEG	1271.94 M	-32.80 M	38.01 M
1287.38 M	15.40 DEG	163.20 DEG	1281.21 M	-35.30 M	38.79 M
1297.04 M	14.50 DEG	165.00 DEG	1290.55 M	-37.69 M	39.47 M
1306.68 M	14.80 DEG	166.70 DEG	1299.87 M	-40.06 M	40.07 M
1316.34 M	15.20 DEG	169.30 DEG	1309.21 M	-42.50 M	40.59 M
1326.00 M	16.30 DEG	168.20 DEG	1318.50 M	-45.07 M	41.10 M
1335.63 M	16.50 DEG	164.70 DEG	1327.74 M	-47.72 M	41.73 M
1345.27 M	16.50 DEG	159.10 DEG	1336.98 M	-50.32 M	42.58 M
1354.91 M	15.80 DEG	155.60 DEG	1346.24 M	-52.79 M	43.62 M
1364.55 M	16.20 DEG	150.40 DEG	1355.51 M	-55.16 M	44.82 M
1374.20 M	16.10 DEG	148.80 DEG	1364.78 M	-57.47 M	46.18 M
1383.85 M	15.60 DEG	146.30 DEG	1374.06 M	-59.70 M	47.59 M
1393.39 M	15.00 DEG	144.00 DEG	1383.26 M	-61.76 M	49.03 M
1403.15 M	15.10 DEG	141.90 DEG	1392.69 M	-63.79 M	50.56 M
1412.79 M	14.80 DEG	142.20 DEG	1402.00 M	-65.75 M	52.09 M
1432.10 M	13.50 DEG	144.00 DEG	1420.73 M	-69.52 M	54.92 M
1441.76 M	13.30 DEG	140.50 DEG	1430.12 M	-71.29 M	56.29 M
1442.45 M	14.30 DEG	142.60 DEG	1430.79 M	-71.42 M	56.40 M
1451.41 M	14.90 DEG	140.50 DEG	1439.46 M	-73.19 M	57.80 M
1461.07 M	15.60 DEG	141.00 DEG	1448.78 M	-75.16 M	59.41 M
1470.72 M	17.00 DEG	139.80 DEG	1458.05 M	-77.24 M	61.14 M
1480.33 M	17.60 DEG	141.80 DEG	1467.22 M	-79.46 M	62.94 M
1490.01 M	17.90 DEG	143.50 DEG	1476.44 M	-81.80 M	64.73 M
1499.66 M	18.40 DEG	143.50 DEG	1485.61 M	-84.22 M	66.52 M
1509.30 M	18.80 DEG	145.40 DEG	1494.75 M	-86.72 M	68.31 M
1518.90 M	18.80 DEG	141.10 DEG	1503.83 M	-89.20 M	70.16 M
1528.55 M	19.10 DEG	137.10 DEG	1512.96 M	-91.57 M	72.21 M
1538.19 M	19.00 DEG	136.30 DEG	1522.07 M	-93.86 M	74.37 M
1547.44 M	19.00 DEG	135.00 DEG	1530.82 M	-96.01 M	76.47 M
1557.42 M	19.00 DEG	134.10 DEG	1540.26 M	-98.29 M	78.79 M
1567.08 M	18.80 DEG	135.00 DEG	1549.40 M	-100.49 M	81.02 M
1576.65 M	18.60 DEG	138.70 DEG	1558.46 M	-102.72 M	83.12 M
1586.39 M	18.40 DEG	139.50 DEG	1567.70 M	-105.06 M	85.14 M
1596.04 M	18.30 DEG	140.90 DEG	1576.86 M	-107.39 M	87.08 M
1605.70 M	17.70 DEG	143.10 DEG	1586.04 M	-109.75 M	88.92 M
1615.37 M	17.10 DEG	144.40 DEG	1595.27 M	-112.08 M	90.63 M
1625.01 M	17.50 DEG	143.50 DEG	1604.47 M	-114.40 M	92.32 M
1634.66 M	17.30 DEG	141.70 DEG	1613.68 M	-116.69 M	94.07 M
1644.33 M	17.30 DEG	138.50 DEG	1622.92 M	-118.89 M	95.92 M
1653.97 M	17.50 DEG	138.00 DEG	1632.11 M	-121.04 M	97.84 M
1663.64 M	18.10 DEG	140.00 DEG	1641.32 M	-123.28 M	99.78 M
1673.29 M	19.00 DEG	139.10 DEG	1650.47 M	-125.61 M	101.77 M
1682.90 M	19.70 DEG	137.10 DEG	1659.54 M	-127.98 M	103.89 M
1692.51 M	19.70 DEG	136.20 DEG	1668.59 M	-130.34 M	106.12 M
1702.11 M	19.20 DEG	137.30 DEG	1677.64 M	-132.67 M	108.31 M
1711.70 M	18.40 DEG	138.50 DEG	1686.72 M	-134.96 M	110.38 M
1721.28 M	17.70 DEG	140.50 DEG	1695.82 M	-137.21 M	112.31 M
1730.84 M	17.30 DEG	141.70 DEG	1704.94 M	-139.45 M	114.11 M
1740.44 M	17.30 DEG	139.70 DEG	1714.11 M	-141.66 M	115.92 M
1750.02 M	18.10 DEG	137.00 DEG	1723.23 M	-143.84 M	117.86 M
1759.62 M	17.90 DEG	139.20 DEG	1732.36 M	-146.04 M	119.84 M
1769.24 M	17.70 DEG	139.70 DEG	1741.52 M	-148.28 M	121.75 M
1778.85 M	18.00 DEG	140.80 DEG	1750.67 M	-150.54 M	123.63 M
1788.51 M	18.10 DEG	142.10 DEG	1759.86 M	-152.88 M	125.50 M
1798.06 M	18.00 DEG	144.20 DEG	1768.94 M	-155.25 M	127.27 M
1807.66 M	18.90 DEG	143.10 DEG	1778.09 M	-157.57 M	128.98 M
1817.30 M	16.20 DEG	143.10 DEG	1787.33 M	-159.77 M	130.63 M
1826.89 M	15.10 DEG	141.20 DEG	1796.57 M	-161.81 M	132.21 M
1836.47 M	14.50 DEG	138.70 DEG	1805.82 M	-163.68 M	133.78 M
1846.07 M	13.50 DEG	137.80 DEG	1815.15 M	-165.42 M	135.34 M
1855.63 M	12.80 DEG	135.20 DEG	1824.45 M	-166.99 M	136.83 M
1865.22 M	12.10 DEG	134.30 DEG	1833.82 M	-168.45 M	138.30 M
1874.80 M	12.60 DEG	134.10 DEG	1843.18 M	-169.88 M	139.77 M
1884.42 M	12.70 DEG	137.00 DEG	1852.56 M	-171.38 M	141.24 M
1894.00 M	12.60 DEG	136.80 DEG	1861.91 M	-172.91 M	142.68 M
1904.62 M	13.10 DEG	136.40 DEG	1872.27 M	-174.63 M	144.30 M
1913.25 M	12.70 DEG	135.10 DEG	1880.68 M	-176.01 M	145.64 M
1922.80 M	12.50 DEG	133.90 DEG	1890.00 M	-177.47 M	147.13 M
1932.42 M	12.10 DEG	133.20 DEG	1899.40 M	-178.88 M	148.62 M
1941.99 M	11.90 DEG	133.50 DEG	1908.76 M	-180.25 M	150.06 M
1951.57 M	11.00 DEG	135.20 DEG	1918.15 M	-181.58 M	151.42 M
1961.15 M	11.90 DEG	134.40 DEG	1927.55 M	-182.87 M	152.72 M
1970.34 M	11.60 DEG	130.90 DEG	1946.37 M	-185.41 M	155.49 M
1999.50 M	10.10 DEG	132.00 DEG	1965.19 M	-187.80 M	158.19 M
2013.00 M	9.20 DEG	130.80 DEG	1978.49 M	-189.30 M	159.89 M
2028.00 M	8.20 DEG	129.47 DEG	1993.32 M	-190.76 M	161.62 M

Company ANADARKO CANADA ENERGY

Schlumberger

Well ANADARKO NETLA A-68

Field NETLA

Province NORTHWEST TERRITORIES

Title Vertical Depth

PLATFORM EXPRESS
ARRAY INDUCTION
LOG

SONIC

Schlumberger

ANADARKO CANADA ENERGY

ANADARKO NETLA A-68

NETLA

SOUTH WEST SASKATCHEWAN

BOREHOLE COMPENSATED
SONIC LOG

LOC: A-68 / 00 43° 7.4", 122 41° 25.9"
LMD: 300M88000122000

Elev.: K.B. 654.1 m
G.L. 649.2 m
D.F. 653.8 m

Permanent Datum: GROUND LEVEL Elev.: 649.2 m
Log Measured From: KELLY BUSHING 4.9 m above Perm. Datum
Drilling Measured From: KELLY BUSHING

	API Serial No.		
	1-068	n/a	n/a
Logging Date	2-Mar-2002		
Run Number	ONE		
Depth Order	3538 m		
Schlumberger Depth	3538 m		
Bottom Log Interval	2015.5 m		
Top Log Interval	354.5 m		
Casing Driller Size @ Depth	244.5(9.6 m	@ 349 m	@
Casing Schlumberger	360 m		
Bit Size	216.000 mm		
Type Fluid in Hole	INVERT		
Density Viscosity	960 kg/m3 52 s		
Fluid Loss	3		
Source Of Sample	N/A		
RM @ Measured Temperature			
RMF @ Measured Temperature			
RMC @ Measured Temperature			
Source RMF / RMC	N/A	N/A	
RM @ MRT	RMF @ MRT	@ 76	@ 76
Maximum Recorded Temperature	Temp	76	
Equipment Stopped	Time	8-Mar-2002 10:00	
Logger On Bottom	Time	8-Mar-2002 21:00	
Unit Number	Location	3031 GRANDE PRAIRIE	
Recorded By		TYLER MAKOWICHUK	
Witnessed By		BEN LEFLER	

	Run 1	Run 2	Run 3	Run 4
Logging Date				
Run Number				
Depth Order				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Driller Size @ Depth	@	@	@	@
Casing Schlumberger				
Bit Size				
Type Fluid in Hole				
Density Viscosity				
Fluid Loss				
Source Of Sample				
RM @ Measured Temperature				
RMF @ Measured Temperature				
RMC @ Measured Temperature				
Source RMF / RMC				
RM @ MRT	RMF @ MRT	@	@	@
Maximum Recorded Temperature	Temp			
Equipment Stopped	Time			
Logger On Bottom	Time			
Unit Number	Location			
Recorded By				
Witnessed By				

DEPTH SUMMARY LISTING

Dist Driller's Depth 3538.0 m

Depth System Equipment

Depth Measuring Device	
Type	Integrated Cable Tension Winch
Serial Number	1406
Calibration Date	28-Feb-2002
Calibration Cable Type	7 cond
Calibration Cable Length	4000 m
Wheel Correction (+)	0.0 m
Wheel Correction (-)	0.0 m
Rig Up Length Correction	0.00 m
Rig Up Length Correction	0.00 m
Run Zero Check At Surface	20.25 m

Logging Cable	
Type	7 CONDUCTOR
Serial Number	4259
Length	4000 m
Calibration Date	1-Mar-2002
Calibration Shots	188
Calibration Speed	1200

Depth Control Parameters

Depth Control Remarks

1 TOOL ZERO HUNG ON KB

2

3

4

5

6

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CDN CDN Compensated Density Neutron
DSI Dipole Shear Sonic Imager
GR Gamma Ray
HDIL High Definition Induction Log
MCFL Micro Cylindrindrical Focused Log
NGS Natural Gamma Ray Spectrometry
PEX Platform Express
SDL Sonic Digital Logging
SPL Spectral Density Dual Spaced Neutron Log
TLD Three Detector Lithology Density
WFL Wireline Formation Tester

MAIN PASS IS A 50FT REPEAT SECTION AT 1800FT.
MAIN PASS IS A 50FT REPEAT SECTION AT 2000FT.
PASS #1 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #2 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #3 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #4 SONIC, GAMMA RAY AND RESISTIVITY.
PASS #5 GAMMA RAY TO SURFACE.
PASS #6 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #7 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #8 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #9 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #10 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #11 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #12 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #13 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #14 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #15 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #16 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #17 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #18 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #19 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #20 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #21 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #22 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #23 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #24 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #25 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #26 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #27 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #28 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #29 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #30 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #31 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #32 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #33 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #34 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #35 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #36 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #37 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #38 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #39 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #40 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #41 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #42 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #43 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #44 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.
PASS #45 SONIC, GAMMA RAY, RESISTIVITY AND DENSITY.
PASS #46 SONIC, GAMMA RAY, RESISTIVITY AND NEUTRON.

	BRINE DRILLED INTERVAL	2015FT	3538FT	BRINE DRILLED INTERVAL	2015FT	3538FT
	ALL DEPTHS REFERENCED TO KB			ALL DEPTHS REFERENCED TO KB		

EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SERVICE EQUIPMENT

DOWNHOLE EQUIPMENT

LEH-QT	20.84		
1.69" Quad Combo			
CDTM	19.97	19.95	
CDTC-H	19.54	19.54	
DSI-DAC-KBM	19.78	19.54	
MCFL			
PEX-AIT-B	17.26		
DSI-DAC-KBM			
EDAC-QAA			
TLD-A	3.38	22.34	
DTCC-A-3573	3.38	22.34	
SDL-A	3.38	22.34	
AH-107	11.07	33.41	
AH-107			
AH-107	9.86	9.25	
EDAC-B			
EDAC-B-227	0.64	0.64	
DSI-E-5.5			
ECAC-Cal	0.38		
AIT-H	4.69		
AIT-H 4 3/4	4.69		
ARAAC-145			
CAL/Section Adapter Kit	2.41		
SP RANGE CHANGE	0.03		
Dual Spring Bow Centralizer	0.00	22.34	
MANDRAKE/STRETCH CHARTER 145-CA-1000	0.00	22.34	
MANDRAKE/STRETCH CHARTER 145-CA-1000			
MISCELLANEOUS EQUIPMENT			
ALL LENGTHS IN METERS			

RUN 2

Input DLIS Files

EDITED1	1-068_20020301_1537.DLIS	1537hr 2002/03/01	2011.4 FT	32.1 FT

Output DLIS Files

DEFAULT RECORDED	AIT_SONIC_AMHP_ANADARKO_NETLA_A-68_1-068_20020301_1537.DLIS	PASS1 PASS2 PASS3 PASS4	08-Mar-2002 01:07 08-Mar-2002 01:07 08-Mar-2002 01:07 08-Mar-2002 01:07	2011.4 M 2011.4 M 2011.4 M 2011.4 M	35.5 M 35.5 M 35.5 M 35.5 M

Integrated Hole/Cement Volume Summary

Rick Nimmo + 54.34 SEI
Integrated from 2015.00 M to 3538.00 M
Computed from 2015.00 M to 3538.00 M

Hole Volume = 1.00 * 3.14159 * (Bit Size / 2)^2 + Excess * 3.14159 * (Caliper / 2)^2 - Casing OD^2 - Tubing OD^2

Excess = 0.00 %
Mud Weight = 1.20 SG
Mud Salinity = 0.00 PPM
Bit Size = 216.00 MM
Casing OD = 244.50 MM
Tubing OD = 0.00 MM

OP System Version: 1OCS-3C6

AIT-H	SPC-2918-NAOL	SDL-A	SPC-2918-NAOL
AIT-H 4 3/4	1OCS-3C6	SDL-A	1OCS-3C6

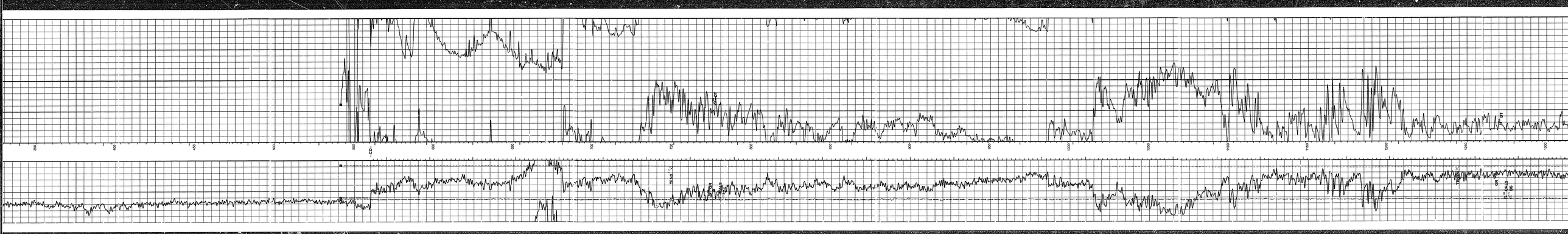
Integrated Hole Volume: Pip Down: 41.9D
Integrated Hole Volume: Pip Down: 7.9B
Integrated Cement Slurry Volume: Pip Down: 7.9B
Integrated Cement Slurry Volume: Pip Down: 41.9D

Time Since Circ From: 01:5 Time Circ Stopped: 01:5

Tension (LBF)		Speed (M/H)	
0	10000	300	0
Depth (M)			
125	375		
Caliper (CALI) (MM)			
400	600		
Bit Size (BS) (MM)			
400	600		

DEPTH (M)
1:500

100	100
150	150
200	200
250	250
300	300
350	350


CD
GR
TENS
GR
Ft/min
Ft/min

Bit Size (BS) 375 (MM)

Caliper 2 (CALI2) 125 (MM) 375

Gamma Ray (GR) 0 (GAPI) 150

Tension (TENS) 50000 (N) 0

Delta-T (DT) 300 (US/M) 100

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
  - Integrated Transit Time Minor Pip Every 1 MS
  - Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSL-T-FTB: Digitizing Sonic Logging Tool		
	DSLT Pickup Mode	SHC	
	Telemetry Mode	DSLT_FTB	
DDEL	Digitizing Delay	1200	US
DFAC_TYPE	DFAC Type	DFAC-B	
DINT	DSLT Depth Sampling Interval	30	
DRCS	DSLT DLIS Recording Size	100	
DTFS	DSLT Telemetry Frame Size	200	
DTFS	DSLC Telemetry Frame Size	200	
DWCO	Digitizing Word Count	100	
ITT1	Integrated Transit Time 1	20	
ITT2	Integrated Transit Time Source	20	
MAHTR	Manual High Threshold Reference	120	
MGAI	Maximum Gain	50	
MHHTR	Minimum High Threshold Reference	100	
MNGG	Near Minimum Sliding Gate	750	US
MXGG	Near Maximum Sliding Gate	750	US
RATE	Firing Rate	R15	
SGAT	Sliding Gate Attenuation Factor	6	DB/M
SGCL	Sliding Gate Closing Delta-T	600	US/M
SGDT	Sliding Gate Delta-T	164	US/M
SGW	Sliding Gate Width	50	US
SLET	Signal Level for AGC	3000	
WMOD	Waveform Mode	FULL	
	HOLEV: Integrated Hole Cement Volume		
FCD	Future Casing (Outer) Diameter	177.8	MM
HVCS	Integrated Hole Volume Caliper Selection	CALI:CALI2	
	DIR: Directional Survey Computed Point		
SPVD	TVD of Starting Point	0	M
TMAD	Along-hole depth of Tie-In Point	600.88	M
TVD	TVD of Tie-in Point	600.88	M
	System and Miscellaneous		
BS	Bit Size	215.900	MM
DO	Depth Offset for Playback	2.0	M
PP	Pass Processing	NORMAL	
TD	Total Depth	2024	M

Format: SLT_2 Vertical Scale: 1:600 Graphics File Created: 09-Mar-2002 01:37

OP System Version: 10C0-306

AIT-H	SPC-2218-NUCL	EDAC-B	SPC-2218-NUCL
DTA-A	10C0-306	DSLT-FTB	SKX-2146-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

Input DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:50	PRODUCER	09-Mar-2002 01:30	2031.0 M 22.1 M

Output DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:52	PRODUCER	09-Mar-2002 01:37	
REDUCED	AIT_SONIC_048PUP	FN:53	PRODUCER	09-Mar-2002 01:37	

Input DLIS Files

DEFAULT	SPLICE_AIT_SONIC_046	FN:1	PRODUCER	09-Mar-2002 01:27	2031.0 M 20.6 M

Output DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:50	PRODUCER	09-Mar-2002 01:30	
REDUCED	AIT_SONIC_048PUP	FN:51	PRODUCER	09-Mar-2002 01:30	

OP System Version: 10C0-306

MCM

AIT-H	SPC-2218-NUCL	EDAC-B	SPC-2218-NUCL
DTA-A	10C0-306	DSLT-FTB	SKX-2146-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
  - Integrated Transit Time Minor Pip Every 1 MS
  - Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S

Tension (TENS) 50000 (N) 0

Gamma Ray (GR) 0 (GAPI) 150

Caliper 2 (CALI2) 125 (MM) 375

Bit Size (BS) 375 (MM)

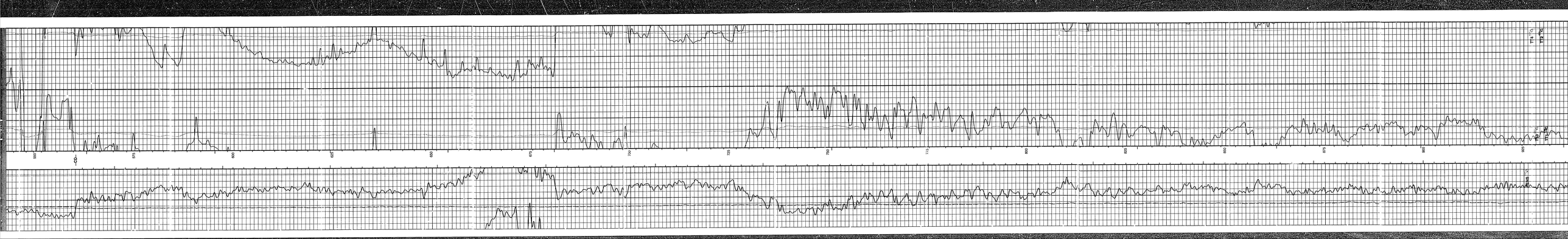
Transit Time 3 (TT3) 1200 (US) 200

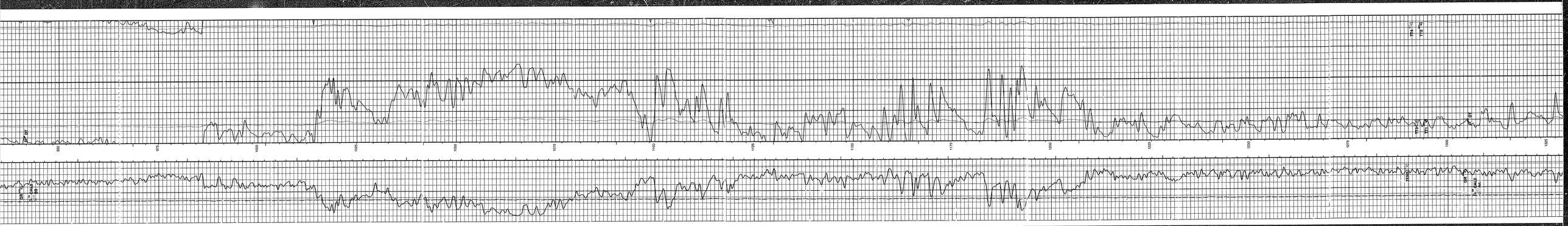
Transit Time 1 (TT1) 1200 (US) 200

Transit Time 4 (TT4) 1200 (US) 200

Transit Time 2 (TT2) 1200 (US) 200

Delta-T (DT) 300 (US/M) 100


T-T4
T3-T5
T5-O1
550
575
600
625
650
675
700
725
750
775
800
825
850
875
900
925


CH1 = CAL2
CH2 = CAL2
850
875
1000
1025
1050
1075
1100
1125
1150
1175
1200
1225
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1275
1300
1325

1350
1375
1400
1425
1450
1475
1500
1525
1550
1575
1600
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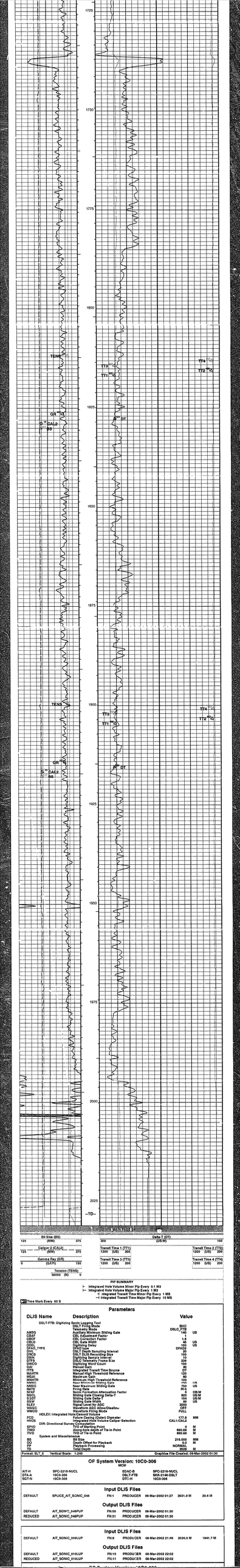
1650
1675
1700
T14
T12
T13
T11
QRS
QT
RR=
QRS=
QT=



Parameters

DLIS Name	Description	Value	
	DSLT-FTB: Digitizing Sonic Logging Tool		
	DSLT Firing Mode	BHC	
	DSLT Firing Sequence	DSLC_FTB	
AMBG	Auxiliary Minimum Sliding Gate	140	US
CBAF	CBL Adjustment Factor	1	
CBCO	CBL Correction Factor	1.6	
CBSG	CBL Sliding Gate	220	US
DDEL	Digitizing Delay	100	US
DFAD_TYPE	DFAD Type	DFADC	
DMCI	DSLT DLIS Sampling Interval	10	
DMCs	DSLT DLIS Recording Size	100	
DSIN	Digitizing Sample Interval	10	
DTFS	DSLC Telemetry Frame Size	226	
DWO	Digitizing Word Count	100	
EWO	Error Word	0	
ITTS	Integrated Transit Time Source	DT	
MAXTR	Manual High Threshold Reference	120	
MINTR	Minimum Gain	100	
MNHTR	Minimum High Threshold Reference	100	
NMSG	Near Minimum Sliding Gate	110	US
NMXG	Near Maximum Sliding Gate	750	US
SFSS	Firing Sequence	R1S	
SGTF	Signal Attenuation Attenuation Factor	1	DB/M
SGCG	Sliding Gate Closing Delta-T	820	US/M
SGOT	Sliding Gate Delta-T	184	US/M
SLEO	Signal Level for AGC	100	US
SLEV	Signal Level for AGC	3500	
WAGC	Waveform AGC Allow/Disallow	OFF	
WMOD	Waveform Mode	FULL	
	HOLEY: Integrated Hole Volume Setup		
FCD	Future Casing (Outer) Diameter	177.8	MM
HVOS	Integrated Hole Volume Caliper Selection	CAL1/CAL2	
	DIR: Directional Survey Configuration		
SPVD	Along-Hole Sampling Point	0	M
TIMD	Along-hole depth of Tie-In Point	690.88	M
TIVD	TVD of Tie-In Point	690.88	M
	System and Miscellaneous		
BS	Bit Size	216.000	MM
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	
TD	Total Depth	2035	M

Format: SLT_S Vertical Scale: 1:240 — Graphics File Created: 09-Mar-2002 01:30

OP System Version: 10C0-306

MCM

AIT-H	SFC-2216-NUCL	EDAC-B	SFC-2216-NUCL
DTA-A	10C0-306	DSLT-FTB	SHX-2148-DSLT
SGT-H	10C0-306	DTC-H	10C0-306

Input DLIS Files

DEFAULT	SPLICE_AIT_SONIC_046	FN:1	PRODUCER	09-Mar-2002 01:27	2031.0 M	20.6 M

Output DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:50	PRODUCER	09-Mar-2002 01:30	
REDUCED	AIT_SONIC_048PUP	FN:51	PRODUCER	09-Mar-2002 01:30	

Input DLIS Files

DEFAULT	AIT_SONIC_009LUP	FN:8	PRODUCER	08-Mar-2002 21:49	2030.0 M	1941.7 M

Output DLIS Files

DEFAULT	AIT_SONIC_010LUP	FN:10	PRODUCER	08-Mar-2002 22:02	
REDUCED	AIT_SONIC_010LUP	FN:11	PRODUCER	08-Mar-2002 22:02	

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-FTB	SKX-2146-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
- Integrated Transit Time Minor Pip Every 1 MS
- Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S

TENS_REP Curve (TENS_REP)
50000 (N) 0

GR_REP Curve (GR_REP)
0 (GAR) 150

CAL2_REP Curve (CAL2_REP)
125 (MM) 375

RS_REP Curve (RS_REP)
125 (MM) 375

DT_REP Curve (DT_REP)
300 (US/M) 100

REPEAT ANOMALY 3

<-- Last Readings

1975

2000

FR-->

2025

<--TD--

RS_REP Curve (RS_REP)
125 (MM) 375

CAL2_REP Curve (CAL2_REP)
125 (MM) 375

GR_REP Curve (GR_REP)
0 (GAR) 150

TENS_REP Curve (TENS_REP)
50000 (N) 0

DT_REP Curve (DT_REP)
300 (US/M) 100

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
- Integrated Transit Time Minor Pip Every 1 MS
- Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSLT-FTB: Digitizing Sonic Logging Tool		
	Sonic Mode	SHC	
	Telemetry Mode	DSLC_FTB	
DDEL	Digitizing Delay	100	US
DFAD_TYPE	DFAD type	DFADZ	
DINC	Digitizing Sampling Interval	20	
DRCS	DSLT DLIS Recording Size	20	
DSIN	Digitizing Sample Interval	10	
DTFS	DSLC Telemetry Frame Size	256	
DWIND	Digitizing Window	100	
GAI	Manual Gain	1.00	
ITTS	Integrated Transit Time Source	DT	
MANTR	Manual High Threshold Reference	120	
MGAI	Manual Gain	1.00	
MNHTR	Minimum High Threshold Reference	80	
NWSG	Near Minimum Sliding Gate	100	US
NXSG	Near Maximum Sliding Gate	150	US
RATE	Rate	750	
SFAF	Semi Formation Attenuation Factor	0	DB/M
SGCL	Sliding Gate Closing Delta-T	800	US/M
SGOP	Sliding Gate Open	164	US/M
SGW	Sliding Gate Width	164	US
SLEV	Signal Level for AGC	3000	
WMOD	Waveform Filing Mode	FULL	
	HOLEV: Integrated Hole/Cement Volumes		
FCD	Fixed Caliper (Gage) Diameter	177.8	MM
HVCS	Integrated Hole Volume Caliper Selection	CAL1/CAL2	
	System and Miscellaneous		
BS	Bit Size	215.000	MM
DCRL	Depth Offset for Repeat Analysis	1.0	M
TD	Total Depth	2038	M

Format: SLT_REP Vertical Scale: 1:240 Graphics File Created: 08-Mar-2002 22:02

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-FTB	SKX-2146-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

Input DLIS Files

DEFAULT	AIT_SONIC_006.LUP	FN:8	PRODUCER	08-Mar-2002 21:49	2030.0 M 1041.7 M

Output DLIS Files

DEFAULT	AIT_SONIC_010.LUP	FN:10	PRODUCER	08-Mar-2002 22:02
REDUCED	AIT_SONIC_010.LUP	FN:11	PRODUCER	08-Mar-2002 22:02

Input DLIS Files

DEFAULT	SPLICE_AIT_SONIC_046	FN:1	PRODUCER	09-Mar-2002 01:27	2031.0 M 20.8 M

Output DLIS Files

DEFAULT	AIT_SONIC_048.PUP	FN:50	PRODUCER	09-Mar-2002 01:30
REDUCED	AIT_SONIC_048.PUP	FN:51	PRODUCER	09-Mar-2002 01:30

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-FTB	SKX-2146-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
- Integrated Transit Time Minor Pip Every 1 MS
- Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S

Tension (TENS)
50000 (N) 0

Gamma Ray (GR)
0 (GAPI) 150

Caliper 2 (CAL2)
125 (MM) 375

Bit Size (BS)
125 (MM) 375

Transit Time 3 (TT3)
1200 (US) 200

Transit Time 1 (TT1)
1200 (US) 200

Delta-T (DT)
500 (US/M) 100

Transit Time 4 (TT4)
1200 (US) 200

Transit Time 2 (TT2)
1200 (US) 200

REPEAT ANOMALY 3

<--CD-->

550

575

600

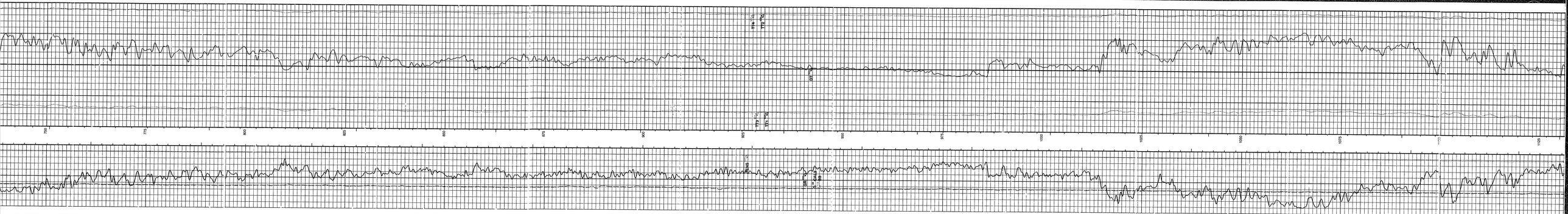
625

650

675

700

725


TT4
TT5
DT
TT3
TT2
RMS
DM
DM2
DM3
750
775
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825
850
875
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925
950
975
1000
1025
1050
1075
1100
1125

ST4 %
ST2 %
ST3 %
ST1 %
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1175
1200
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1375
1400
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1450
1475
1500

T74 T73
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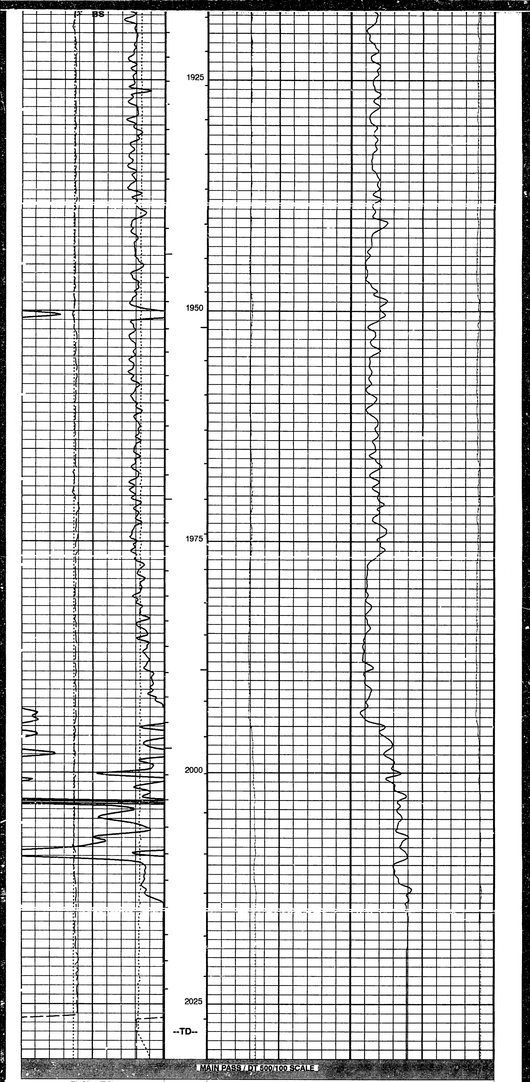
T-18 T-19
T-19 T-20
T-20



MAIN PASS / DT 500/100 SCALE

Bit Size (BS)
125 (MM) 375

Caliper 2 (CAL2)
125 (MM) 375

Gamma Ray (GR)
0 (GAPI) 150

Tension (TENS)
50000 (N) 0

Delta-T (DT)
500 (US/M) 100

Transit Time 1 (TT1)
1200 (US) 200

Transit Time 2 (TT2)
1200 (US) 200

Transit Time 3 (TT3)
1200 (US) 200

Transit Time 4 (TT4)
1200 (US) 200

PIP SUMMARY

Integrated Hole Volume Minor Pip Every 0.1 M3
Integrated Hole Volume Major Pip Every 1 M3
Integrated Transit Time Minor Pip Every 1 MS
Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSLT-FTB: Digitizing Sonic Logging Tool		
	DSLT Firing Mode	BHC	
	Telemetry Mode	DSLC_FTB	
AMSG	Auxiliary Minimum Sliding Gate	140	US
CBAF	CBL Adjustment Factor	1	
CBCF	CBL Correction Factor	1.5	
CBLG	CBL Gate Width	40	US
DDEL	Digitizing Delay	100	US
DFAD_TYPE	DFAD type	DFAD2	
DIVL	DSLT Depth Sampling Interval	20	
DRCD	DSLT DLIS Recording Size	100	
DSIN	Digitizing Sample Interval	10	
DTPS	DSLC Telemetry Frame Size	236	
DWCO	Digitizing Word Count	100	
GAI	Manual Gain	40	
ITTS	Integrated Transit Time Source	DT	
MAHTR	Manual High Threshold Reference	120	
MGAI	Maximum Gain	80	
MNHTR	Minimum High Threshold Reference	100	
NMSG	Near Minimum Sliding Gate	150	US
NMXG	Near Maximum Sliding Gate	750	US
RATE	Firing Rate	R15	
SFAF	Sonic Formation Attenuation Factor	0	DB/M
SGCL	Sliding Gate Closing Delta-T	820	US/M
SGDT	Sliding Gate Delta-T	184	US/M
SGW	Sliding Gate Width	80	US
SLEV	Signal Level for AGC	3500	
WAGC	Waveform AGC Allow/Disallow	OFF	
WMOD	Waveform Firing Mode	FULL	
	HOLEV: Integrated Hole/Cement Volume		
FCD	Future Casing (Outer) Diameter	177.8	MM
HVCS	Integrated Hole Volume Caliper Selection	CAL1/CAL2	
	DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-In Point	690.88	M
TIVD	TVD of Tie-In Point	690.88	M
	System and Miscellaneous		
BS	Bit Size	216.000	MM
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	
TD	Total Depth	2028	M

Format: SLT_5_500 Vertical Scale: 1:240 Graphics File Created: 09-Mar-2002 01:30

OP System Version: 10C0-306

ML-M

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-FTB	SKK-2146-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

Input DLIS Files

DEFAULT	SPLICE_AIT_SONIC_046	FN:1	PRODUCER	09-Mar-2002 01:27 2031.0 M	20.6 M

Output DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:50	PRODUCER	09-Mar-2002 01:30
REDUCED	AIT_SONIC_048PUP	FN:51	PRODUCER	09-Mar-2002 01:30

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Array Induction Tool - H Wellsite Calibration - Electronics Calibration Check - Thru Cal Mag. & Phase							
Master: 2-Jan-2002 12:58 Before: 8-Mar-2002 20:13							
Thru Cal Magnitude - 0	0	0.6196	0.6262	N/A	N/A	N/A	V
Thru Cal Magnitude - 1	0	1.274	1.287	N/A	N/A	N/A	V
Thru Cal Magnitude - 2	0	0.6308	0.6370	N/A	N/A	N/A	V
Thru Cal Magnitude - 3	0	0.7172	0.7247	N/A	N/A	N/A	V
Thru Cal Magnitude - 4	0	1.336	1.349	N/A	N/A	N/A	V
Thru Cal Magnitude - 5	0	1.939	1.960	N/A	N/A	N/A	V
Thru Cal Magnitude - 6	0	1.939	1.960	N/A	N/A	N/A	V
Thru Cal Magnitude - 7	0	1.422	1.420	N/A	N/A	N/A	V
Phase - 0	0	50.20	51.35	N/A	N/A	N/A	DEG
Phase - 1	0	49.08	50.25	N/A	N/A	N/A	DEG
Phase - 2	0	45.24	46.44	N/A	N/A	N/A	DEG
Phase - 3	0	44.41	45.61	N/A	N/A	N/A	DEG
Phase - 4	0	38.03	39.28	N/A	N/A	N/A	DEG
Phase - 5	0	36.10	37.38	N/A	N/A	N/A	DEG
Phase - 6	0	36.10	37.37	N/A	N/A	N/A	DEG
Phase - 7	0	32.11	33.69	N/A	N/A	N/A	DEG
Array Induction Tool - H Wellsite Calibration - Auxiliary							
Master: 2-Jan-2002 12:58 Before: 8-Mar-2002 20:13							
Array Induction SPA Plus	990.5	994.0	994.7	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	-0.04861	-0.05082	N/A	N/A	N/A	MV
Array Induction Temperature Pi	0.9150	0.9209	0.9216	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	-0.00004659	-0.00004417	N/A	N/A	N/A	V
Array Induction Tool - H Wellsite Calibration - Test Loop Gain Correction							
Master: 2-Jan-2002 12:58							
Test Loop Gain Magnitude - 0	0	1.014	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 1	0	1.048	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 2	0	1.018	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 3	0	1.022	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 4	0	0.9957	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 5	0	1.000	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 6	0	1.010	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 7	0	1.029	N/A	N/A	N/A	N/A	V
Phase - 0	0	0.3380	N/A	N/A	N/A	N/A	DEG
Phase - 1	0	0.6703	N/A	N/A	N/A	N/A	DEG
Phase - 2	0	0.1058	N/A	N/A	N/A	N/A	DEG
Phase - 3	0	0.2458	N/A	N/A	N/A	N/A	DEG
Phase - 4	0	-0.001069	N/A	N/A	N/A	N/A	DEG
Phase - 5	0	-0.2747	N/A	N/A	N/A	N/A	DEG
Phase - 6	0	0.1140	N/A	N/A	N/A	N/A	DEG
Phase - 7	0	-0.1002	N/A	N/A	N/A	N/A	DEG
Array Induction Tool - H Wellsite Calibration - Sonde Error Correction							
Master: 2-Jan-2002 12:58							
R Sonde Error Correction - 0	0	-84.75	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 1	0	172.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 2	0	113.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 3	0	84.88	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 4	0	27.02	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 5	0	12.46	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 6	0	9.269	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 7	0	-1.929	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 0	0	-37.52	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 1	0	-20.37	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 2	0	29.89	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 3	0	64.65	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 4	0	22.30	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 5	0	8.220	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 6	0	4.360	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 7	0	1.370	N/A	N/A	N/A	N/A	MM/M
Array Induction Tool - H Wellsite Calibration - Mud Gain Correction							
Master: 2-Jan-2002 12:58							
Coarse - Mag, Real, Imag - 0	0	0.9880	N/A	N/A	N/A	N/A	
Coarse - Mag, Real, Imag - 1	0	0.9920	N/A	N/A	N/A	N/A	
Coarse - Mag, Real, Imag - 2	0	0.9920	N/A	N/A	N/A	N/A	
Fine - Mag, Real, Imag - 0	0	0.9966	N/A	N/A	N/A	N/A	
Fine - Mag, Real, Imag - 1	0	0.9899	N/A	N/A	N/A	N/A	
Fine - Mag, Real, Imag - 2	0	0.9899	N/A	N/A	N/A	N/A	
Eccentered Dual Axis Caliper Wellsite Calibration - Caliper 1 Calibration							
Before: 8-Mar-2002 13:52							
Caliper 1 Small Ring	203.2	N/A	67.93	N/A	N/A	N/A	MM
Caliper 1 Large Ring	304.8	N/A	132.2	N/A	N/A	N/A	MM
Eccentered Dual Axis Caliper Wellsite Calibration - Caliper 2 Calibration							
Before: 8-Mar-2002 13:52							
Caliper 2 Small Ring	203.2	N/A	32.34	N/A	N/A	N/A	MM
Caliper 2 Large Ring	304.8	N/A	54.00	N/A	N/A	N/A	MM
Scintillation Gamma-Ray - N Wellsite Calibration - Detector Calibration							
Before: 8-Mar-2002 20:11							
Gamma Ray (Ulg - Bkg)	170.4	N/A	170.4	N/A	N/A	15.49	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Array Induction Tool - H / Equipment Identification

Primary Equipment:
Rm/SP Bottom Nose AHRM - A
Array Induction Sonde AHIS - BA 145

Auxiliary Equipment:

Array Induction Tool - H Wellsite Calibration
Electronics Calibration Check - Thru Cal Mag. & Phase

Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Phase DEG	Nominal
0	Master	0.8196		0.6050	50.20		71.00
	Before	0.8262			51.35		
1	Master	1.274		1.270	49.08		70.00
	Before	1.287			50.25		
2	Master	0.6308		0.6230	45.24		66.00
	Before	0.6370			46.44		
3	Master	0.7172		0.7040	44.41		65.00
	Before	0.7247			45.61		
4	Master	1.336		1.337	38.03		59.00
	Before	1.349			39.23		
5	Master	1.939		1.955	36.10		57.00
	Before	1.960			37.38		
6	Master	1.939		1.955	36.10		57.00
	Before	1.960			37.37		
7	Master	1.402		1.415	32.11		53.00
	Before	1.420			33.69		

60.00 % (Minimum) (Nominal) 140.0 % (Maximum) Nom -60.00 (Minimum) (Nominal) Nom + 60.00 (Maximum)

Master: 2-Jan-2002 12:58 Before: 8-Mar-2002 20:13

Array Induction Tool - H Wellsite Calibration
Electronics Calibration Check - Auxiliary

Phase	Array Induction SPA Plus MV	Value	Phase	Array Induction SPA Zero MV	Value
Master		994.0	Master		-0.04981
Before		994.7	Before		-0.05082
941.0 (Minimum)	990.5 (Nominal)	1040 (Maximum)	-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)

Phase	Array Induction Temperature Plus V	Value	Phase	Array Induction Temperature Zero V	Value
Master		0.9209	Master		-4.659E-00
Before		0.9216	Before		-4.417E-00
0.8700 (Minimum)	0.9150 (Nominal)	0.9600 (Maximum)	-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)

Master: 2-Jan-2002 12:58 Before: 8-Mar-2002 20:13

Array Induction Tool - H Wellsite Calibration
Test Loop Gain Correction

Idx	Value	Test Loop Gain Magnitude V	Value	Phase DEG
0	1.014		0.3380	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
1	1.049		0.8703	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
2	1.018		0.1058	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
3	1.022		0.2458	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
4	0.9957		-0.001068	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
5	1.000		-0.2747	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
6	1.012		0.1140	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
7	1.028		-0.1002	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)

Master: 2-Jan-2002 12:58

Array Induction Tool - H Wellsite Calibration
Sonde Error Correction

Idx	Value	R Sonde Error Correction MM/M	Value	X Sonde Error Correction MM/M
0	-84.75		-37.52	
	-291.0 (Minimum)	-56.00 (Nominal) 119.0 (Maximum)	-2250 (Minimum)	0 2250 (Nominal) (Maximum)
1	172.3		-30.37	
	114.0 (Minimum)	159.0 204.0 (Nominal) (Maximum)	-625.0 (Minimum)	0 625.0 (Nominal) (Maximum)
2	113.3		29.49	
	66.00 (Minimum)	111.0 156.0 (Nominal) (Maximum)	-350.0 (Minimum)	0 350.0 (Nominal) (Maximum)
3	64.66		-64.65	
	39.00 (Minimum)	64.00 89.00 (Nominal) (Maximum)	-250.0 (Minimum)	0 250.0 (Nominal) (Maximum)
4	27.02		22.90	
	15.00 (Minimum)	25.00 35.00 (Nominal) (Maximum)	-63.00 (Minimum)	0 63.00 (Nominal) (Maximum)
5	12.46		8.220	
	4.000 (Minimum)	14.00 24.00 (Nominal) (Maximum)	-50.00 (Minimum)	0 50.00 (Nominal) (Maximum)
6	9.269		4.360	
	5.000 (Minimum)	10.00 15.00 (Nominal) (Maximum)	-30.00 (Minimum)	0 30.00 (Nominal) (Maximum)
7	-1.929		1.570	
	-5.000 (Minimum)	0 5.000 (Nominal) (Maximum)	-30.00 (Minimum)	0 30.00 (Nominal) (Maximum)

Master: 2-Jan-2002 12:58

Array Induction Tool - H Wellsite Calibration
Mud Gain Correction

Idx	Value	Coarse - Mag. Real, Imag	Value	Fine - Mag. Real, Imag
0	0.9880		0.9966	
	0.8000 (Minimum)	1.000 1.200 (Nominal) (Maximum)	0.8000 (Minimum)	1.000 1.200 (Nominal) (Maximum)
1	0.9920		0.9899	
	0.8000 (Minimum)	1.000 1.200 (Nominal) (Maximum)	0.8000 (Minimum)	1.000 1.200 (Nominal) (Maximum)
2	0.9920		0.9899	
	0.8000 (Minimum)	1.000 1.200 (Nominal) (Maximum)	0.8000 (Minimum)	1.000 1.200 (Nominal) (Maximum)

Master: 2-Jan-2002 12:58

Array Induction Tool - H Master Calibration
Electronics Calibration Check - Thru Cal Mag. & Phase

Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Phase DEG	Nominal
0	Master	0.8196		0.6050	50.20		71.00
1	Master	1.274		1.270	49.08		70.00
2	Master	0.6308		0.6230	45.24		66.00
3	Master	0.7172		0.7040	44.41		65.00
4	Master	1.336		1.337	38.03		59.00
5	Master	1.939		1.955	36.10		57.00
6	Master	1.939		1.955	36.10		57.00
7	Master	1.402		1.415	32.11		53.00

60.00 % (Minimum) (Nominal) 140.0 % (Maximum) Nom -60.00 (Minimum) (Nominal) Nom + 60.00 (Maximum)

Master: 2-Jan-2002 12:58

Array Induction Tool - H Master Calibration
Electronics Calibration Check - Auxiliary

Phase	Array Induction SPA Plus MV	Value	Phase	Array Induction SPA Zero MV	Value
Master		994.0	Master		-0.04981
941.0 (Minimum)	990.5 (Nominal)	1040 (Maximum)	-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)

Phase	Array Induction Temperature Plus V	Value	Phase	Array Induction Temperature Zero V	Value
Master		0.9209	Master		-4.659E-00
0.8700 (Minimum)	0.9150 (Nominal)	0.9600 (Maximum)	-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)

Master: 2-Jan-2002 12:58

Array Induction Tool - H Master Calibration
Test Loop Gain Correction

Idx	Value	Test Loop Gain Magnitude V	Value	Phase DEG
0	1.014		0.3380	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
1	1.049		0.8703	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
2	1.018		0.1058	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
3	1.022		0.2458	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
4	0.9957		-0.001068	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
5	1.000		-0.2747	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
6	1.012		0.1140	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
7	1.028		-0.1002	
	0.9500 (Minimum)	1.000 (Nominal) 1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)

Master: 2-Jan-2002 12:58

Array Induction Tool - H Master Calibration
Sonde Error Correction

Idx	Value	R Sonde Error Correction MM/M	Value	X Sonde Error Correction MM/M
0	-84.75		-37.52	
	-291.0 (Minimum)	-56.00 (Nominal) 119.0 (Maximum)	-2250 (Minimum)	0 2250 (Nominal) (Maximum)
1	172.3		-30.37	
	114.0 (Minimum)	159.0 204.0 (Nominal) (Maximum)	-625.0 (Minimum)	0 625.0 (Nominal) (Maximum)
2	113.3		29.49	
	66.00 (Minimum)	111.0 156.0 (Nominal) (Maximum)	-350.0 (Minimum)	0 350.0 (Nominal) (Maximum)
3	64.66		-64.65	
	39.00 (Minimum)	64.00 89.00 (Nominal) (Maximum)	-250.0 (Minimum)	0 250.0 (Nominal) (Maximum)
4	27.02		22.90	
	15.00 (Minimum)	25.00 35.00 (Nominal) (Maximum)	-63.00 (Minimum)	0 63.00 (Nominal) (Maximum)
5	12.46		8.220	
	4.000 (Minimum)	14.00 24.00 (Nominal) (Maximum)	-50.00 (Minimum)	0 50.00 (Nominal) (Maximum)
6	9.269		4.360	
	5.000 (Minimum)	10.00 15.00 (Nominal) (Maximum)	-30.00 (Minimum)	0 30.00 (Nominal) (Maximum)
7	-1.929		1.570	
	-5.000 (Minimum)	0 5.000 (Nominal) (Maximum)	-30.00 (Minimum)	0 30.00 (Nominal) (Maximum)

Master: 2-Jan-2002 12:58

Array Induction Tool - H Master Calibration
Mud Gain Correction

Idx	Value	Coarse - Mag. Real, Imag	Value	Fine - Mag. Real, Imag
0	0.9880		0.9966	
	0.8000 (Minimum)	1.000 1.200 (Nominal) (Maximum)	0.8000 (Minimum)	1.000 1.200 (Nominal) (Maximum)
1	0.9920		0.9899	
	0.8000 (Minimum)	1.000 1.200 (Nominal) (Maximum)	0.8000 (Minimum)	1.000 1.200 (Nominal) (Maximum)
2	0.9920		0.9899	
	0.8000 (Minimum)	1.000 1.200 (Nominal) (Maximum)	0.8000 (Minimum)	1.000 1.200 (Nominal) (Maximum)

Master: 2-Jan-2002 12:58

Eccentered Dual Axis Caliper / Equipment Identification

Primary Equipment:		
Eccentered Dual Axis Sonde - BA	EDAS - BA	30
Eccentered Dual Axis Electronics (cartri	EDAE - A	13
Auxiliary Equipment:		
Electronics Cartridge Housing	ECH - KC	1377

Scintillation Gamma-Ray - N / Equipment Identification

Primary Equipment:		
Scintillation Gamma Cartridge	SGC - TB	
Scintillation Gamma Detector	SGD - TAA	
Auxiliary Equipment:		
Scintillation Gamma Housing	SGH - K	
Gamma Source Radioactive	GSR - UY	

Scintillation Gamma-Ray - N Wellsite Calibration
Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkgd) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		23.43	Before		170.4	Before		165.0
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	154.9 (Minimum)	170.4 (Nominal)	185.9 (Maximum)	150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)

Before: 8-Mar-2002 20:11

Company: ANADARKO CANADA ENERGY
Well: ANADARKO NETLA A-68
Field: NETLA
Province: NORTHWEST TERRITORIES
Measured Depth:

Schlumberger

BOREHOLE COMPENSATED
SONIC LOG

Schlumberger

ANADARKO CANADA ENERGY

ANADARKO NETLA A-68

NETLA

NORTHWEST TERRITORIES

BOREHOLE COMPENSATED SONIC LOG

Province:	N.W.T.
Field:	NETLA
Location:	LOC: A-68 / 60 47 7.4', 122 41' 38.9"
Well:	ANADARKO NETLA A-68
Company:	ANADARKO CANADA ENERGY

LOCATION

LOC: A-68 / 60 47' 7.4", 122 41' 38.9"
UWID: 300A686050122300

		Elev.:	K.B.	654.1 m
			G.L.	649.2 m
			D.F.	653.8 m
Permanent Datum:	GROUND LEVEL	Elev.:	649.2 m	
Log Measured From:	KELLY BUSHING	4.9 m	above Perm. Datum	
Drilling Measured From:	KELLY BUSHING			

	API Serial No. 1936	n/a	n/a	n/a
Logging Date	8-Mar-2002			
Run Number				
Depth Driller	TVD			
Schlumberger Depth	1993.3 m			
Bottom Log Interval	1993.3 m			
Top Log Interval	1980.8 m			
Casing Driller Size @ Depth	560 m			
Casing Schlumberger	244.500 mm @ 560 m		@ 560 m	
Bit Size	560 m			
Type Fluid In Hole	216.000 mm			
Density / Viscosity	INVERT			
Fluid Loss / PH	980 kg/m3 / 52 s			
MUD Source Of Sample	N/A			
RM @ Measured Temperature		@		@
RMF @ Measured Temperature		@		@
RMC @ Measured Temperature		@		@
Source RMF / RMC	N/A / N/A			
RM @ MRT / RMF @ MRT	@ 76	@ 76	@	@
Maximum Recorded Temperatures	76 degC			
Circulation Stopped / Time	8-Mar-2002	12:00		
Logger On Bottom / Time	8-Mar-2002	21:50		
Unit Number / Location	2031 / GRANDE PRAIRIE			
Recorded By	TYLER MAKSYMCHUK			
Witnessed By	BEN URLWIN			

	Run 1	Run 2	Run 3	Run 4
Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Driller Size @ Depth	@		@	
Casing Schlumberger				
Bit Size				
Type Fluid In Hole				
Density / Viscosity				
Fluid Loss / PH				
MUD Source Of Sample				
RM @ Measured Temperature	@		@	
RMF @ Measured Temperature	@		@	
RMC @ Measured Temperature	@		@	
Source RMF / RMC				
RM @ MRT / RMF @ MRT	@	@	@	@
Maximum Recorded Temperatures				
Circulation Stopped / Time				
Logger On Bottom / Time				
Unit Number / Location				
Recorded By				
Witnessed By				

DEPTH SUMMARY LISTING

Date Created: 8-MAR-2002 22:22:48

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-46V-XS
Serial Number:	5826	Serial Number:	1293	Serial Number:	422
Calibration Date:	18-FEB-2002	Calibration Date:	31-JAN-2002	Length:	5679.95 M
Calibrator Serial Number:	4	Calibrator Serial Number:	-999	Conveyance Method:	Wireline
Calibration Cable Type:	7-46P	Calibration Gain:	0.98	Rig Type:	LAND
Wheel Correction 1:	-9	Calibration Offset:	1222.00		
Wheel Correction 2:	-5				

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	0.00 M
Rig Up Length At Bottom:	0.00 M
Rig Up Length Correction:	0.00 M
Stretch Correction:	1.00 M
Tool Zero Check At Surface:	20.25 M

Depth Control Remarks

1. TOOL ZERO A@ KB
2.
3.
4.
5.
6.

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES. PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1	OTHER SERVICES2
OS1: ARRAY INDUCTION LOG	OS1:
OS2: BHC SONIC LOG	OS2:
OS3: CEMENT VOLUME,	OS3:
OS4: GAMMA RAY TO SURFACE	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1

PRESENTATIONS AND LOGGING INTERVALS AS PER CLIENT REQUEST.
INDUCTION TOOL WAS RUN IN COMPUTE MUD RESISTIVITY MODE WITH
TWO 25.4 MM STANDOFFS.

SONIC WAS RUN WITH 3 RUBBER STANDOFFS AND 3 CMEZ'S
FOR CENTRALIZATION.

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MAIN PASS RUN AT 3600 FT/HR AND REPEAT PASS AT 1800 FT/HR.
REPEAT ANALYSIS OF GAMMA RAY SHOWS ANOMALOUS READINGS ON MAIN
PASS VS. REPEAT. DISCUSSED WITH WELL SITE GEOLOGIST AND AGREED TO NO SECOND
REPEAT REQUIRED.
RIG: AKITA 55
CREW: T. BURROWS, D. LEDINGHAM
PRINTS: 2 FIELD AND 8 FINALS

THANK YOU FOR USING SCHLUMBERGER EVALUATION SERVICES.

REMARKS: RUN NUMBER 2

RUN 1		RUN 2	
SERVICE ORDER #:	7925080	SERVICE ORDER #:	
PROGRAM VERSION:	10C0-306	PROGRAM VERSION:	
FLUID LEVEL:		FLUID LEVEL:	

LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

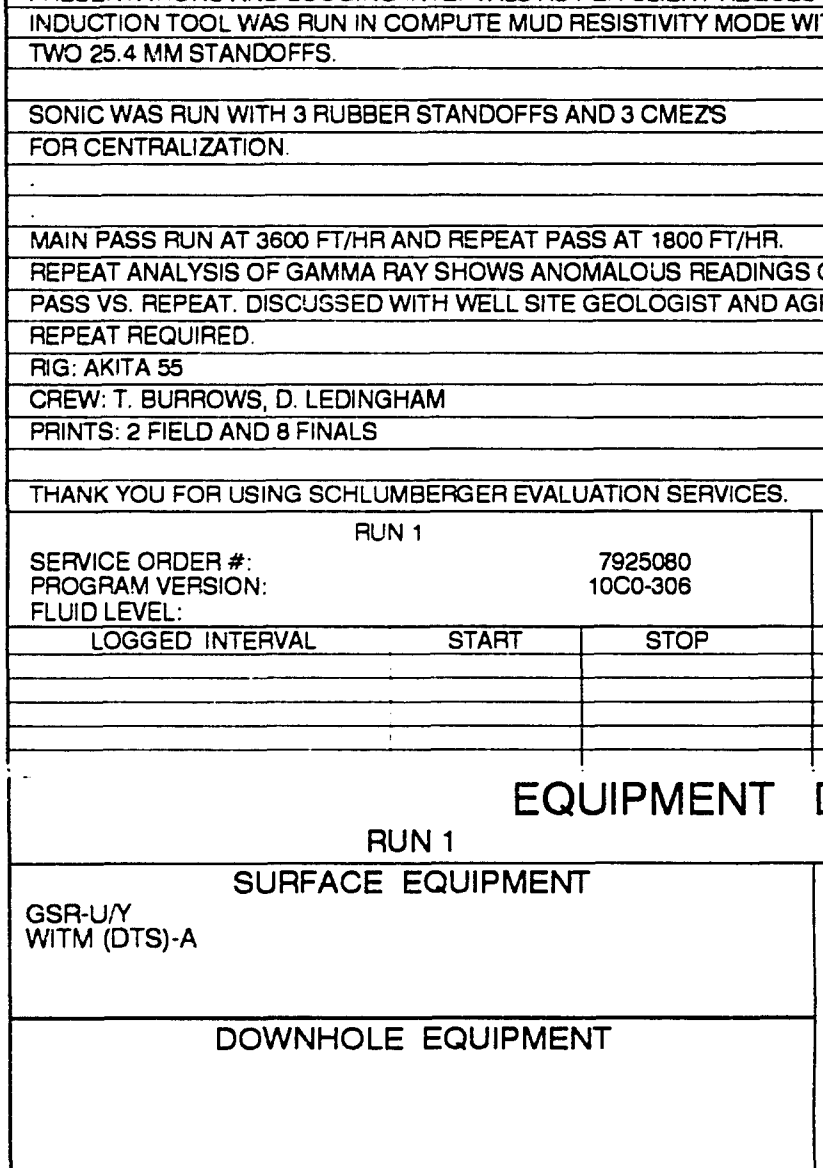
EQUIPMENT DESCRIPTION

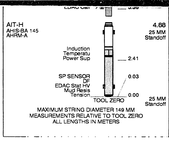
RUN 1 RUN 2

SURFACE EQUIPMENT

GSR-U/Y
WITM (DTS)-A

DOWNHOLE EQUIPMENT





MAXIMUM STRING DIAMETER 148 MM
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Input DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:50	PRODUCER	09-Mar-2002 00:30	2031.0 M 22.1 M

Output DLIS Files

DEFAULT	AIT_SONIC_007PUP	FN:7	PRODUCER	09-Mar-2002 01:38
REDUCED	AIT_SONIC_007PUP	FN:8	PRODUCER	09-Mar-2002 01:39

Indexed to True Vertical Depth in this Playback

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-PTB	SKK-2146-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
- Integrated Transit Time Minor Pip Every 1 MS
- Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S

Tension (TENS)	
16000 (N)	0

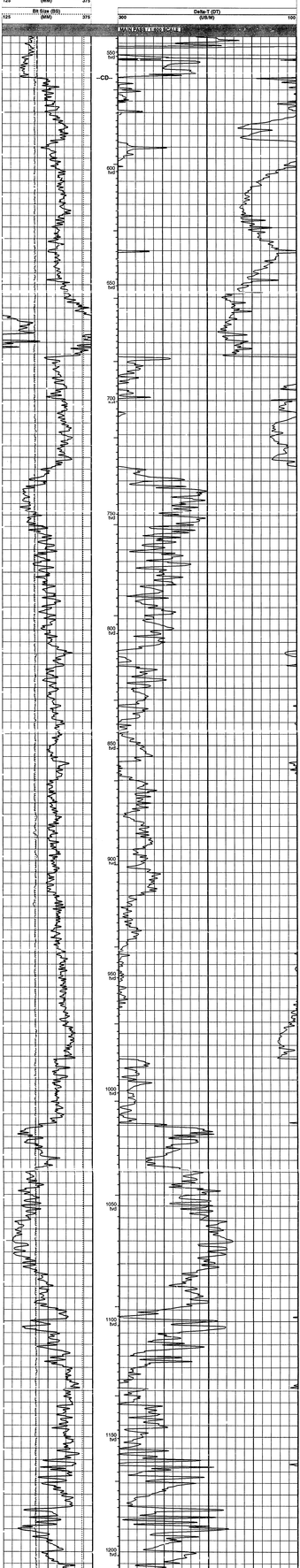
Gamma Ray (GR)	
0 (GAPI)	150

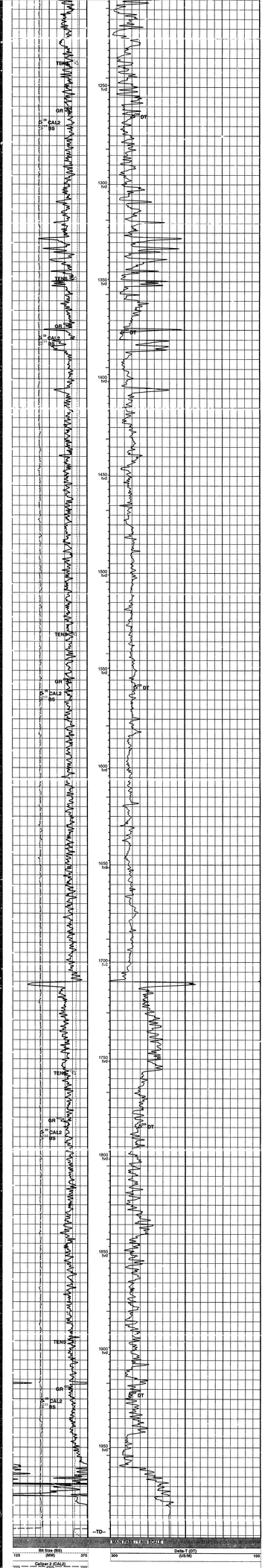
Caliper 2 (CALI2)	
125 (MM)	375

Bit Size (BS)	
125 (MM)	375

Delta-T (DT)	
300 (US/M)	100

MAIN PASS WAS LOGGED





Bit Size (BS) (MM) 125 375

Caliper 2 (CAL2) (MM) 125 375

Gamma Ray (GR) (GAPI) 0 100

Tension (TENS) (N) 50000 0

Delta-T (DT) (US/M) 300 100

PIP SUMMARY

Integrated Hole Volume Minor Pip Every 0.1 M3
Integrated Hole Volume Major Pip Every 1 M3
Integrated Transit Time Minor Pip Every 1 MS
Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSLT-FTB: Digitizing Sonic Logging Tool		
	Tele-pulse	DSLC_PTB	
	Digitizing Mode	1320	
DDEL	Digitizing Delay	100	US
DFAD_TYPE	DFAD Type	DFAD2	
DSI	DSLT Depth Sampling Interval	20	
DRO	DSLT DLIS Recording Size	20	
DSIN	Digitizing Sample Interval	10	
DTFS	DSLC Telemetry Frame Size	226	
DWCO	Digitizing Word Count	100	
GAV	Gain Value	1.0	
ITTS	Integrated Transit Time Source	DT	
MAHTR	Manual High Threshold Reference	120	
MAXI	Maximum Index	20	
MINTH	Minimum High Threshold Reference	100	
NMSO	Near Minimum Sliding Gate	180	US
NMXG	Near Maximum Sliding Gate	250	US
RATE	Recording Rate	RI 5	
SFAF	Sonic Formation Attenuation Factor	1	DB/M
SIGL	Sliding Gate Leading Delta-T	820	US/M
SGDT	Sliding Gate Delta-T	184	US/M
SGTR	Sliding Gate Trailing	1004	US
SLEV	Signal Level for AGC	3000	
WMOD	Waveform Firing Mode	FULL	
	HOLEV: Integrated Hole Volume		
FCD	Future Casing (Open) Diameter	177.8	MM
HVCS	Integrated Hole Volume Caliper Selection	CALY/CAL2	
	DIR: Directional Survey Computation		
SPID	TVD of Starting Point	0	M
TWD	TVD of Tie-In Point Tie-In Point	690.88	M
TWO	TVD of Tie-In Point	690.88	M
	System and Miscellaneous		
ALTDCHAN	Source of alternate depth channel	TrueVerticalDepth	
BS	Bit Size	216.000	MM
DO	Depth Offset for Playback	0.0	M
PBRADP	Use alternate depth channel for playback	YES	
PP	Pressure Processing	NORMAL	
TD	TD	2042	M

Format: SLT_2 Vertical Scale: 1:600 Graphics File Created: 09-Mar-2002 01:39

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-PTB	SKK-2146-DSLT
SGT-H	10C0-306	DTC-H	10C0-306

Indexed to True Vertical Depth in this Playback

Input DLIS Files

DEFAULT	AIT_SONIC_04EPUP	FN:50	PRODUCER	09-Mar-2002 00:30	2031.0 M	22.1 M

Output DLIS Files

DEFAULT	AIT_SONIC_507PUP	FN:7	PRODUCER	09-Mar-2002 01:38		
REDUCED	AIT_SONIC_507PUP	FN:8	PRODUCER	09-Mar-2002 01:39		

Input DLIS Files

DEFAULT	AIT_SONIC_04EPUP	FN:50	PRODUCER	09-Mar-2002 00:30	2031.0 M	22.1 M

Output DLIS Files

DEFAULT	AIT_SONIC_007PUP	FN:7	PRODUCER	09-Mar-2002 01:38
REDUCED	AIT_SONIC_007PUP	FN:8	PRODUCER	09-Mar-2002 01:39

Indexed to True Vertical Depth in Wa Flowback

OP System Version: 10CO-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10CB-306	DSLT-FTB	SKK-2146-DSLT
SGT-N	10CB-306	DTC-H	10CB-306

PIP SUMMARY

Integrated Hole Volume Minor Plp Every 0.1 M3
Integrated Hole Volume Major Plp Every 1 M3
Integrated Transit Time Minor Plp Every 1 MS
Integrated Transit Time Major Plp Every 10 MS

Time Mark Every 60 S

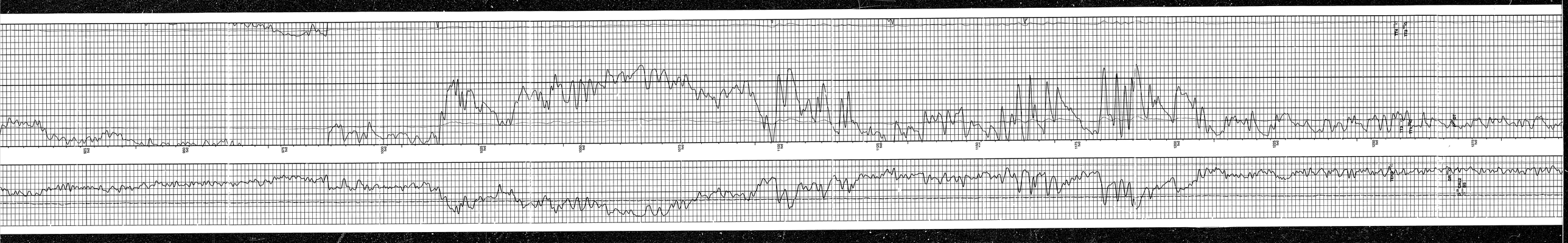
Tension (TENS)		
50000 (lb)		0
Gamma Ray (GR)		
0 (GAPI)		150
Caliper 2 (CAL2)		
125 (MM)		375
Bit Size (BS)		
125 (MM)		375

Transit Time 3 (TT3)		
1200 (US)		200
Transit Time 1 (TT1)		
1200 (US)		200
Delta-T (DT)		
300 (US/N)		100

Transit Time 4 (TT4)	
1200 (US)	200
Transit Time 2 (TT2)	
1200 (US)	200

MAIN PASS

550 tvd
CD
575 tvd
600 tvd
625 tvd
650 tvd
675 tvd
700 tvd
725 tvd
750 tvd
775 tvd
800 tvd
825 tvd
850 tvd
875 tvd
900 tvd



TP4
TP3
TP2
TP1
TP4
TP3
TP2
TP1
1300
1305
1310
1315
1320
1325
1330
1335
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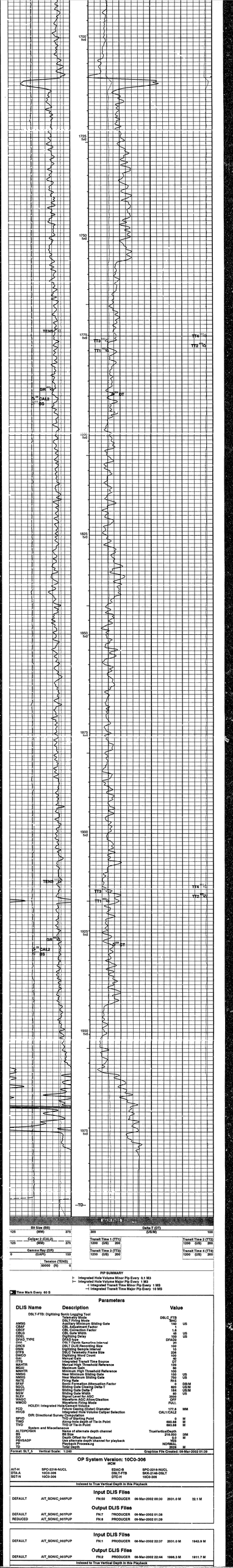
1460
1465
1470
1475



Bit Size (BS) (MM)		Delta-T (DT) (US/M)	
125	375	300	100
Caliper 2 (CAL2) (MM)		Transit Time 1 (TT1) 1200 (US) 200	Transit Time 2 (TT2) 1200 (US) 200
125	375		
Gamma Ray (GR) (GAPI)		Transit Time 3 (TT3) 1200 (US) 200	Transit Time 4 (TT4) 1200 (US) 200
0	150		
Tension (TENS) 50000 (N) 0			

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
  - Integrated Transit Time Minor Pip Every 1 MS
  - Integrated Transit Time Major Pip Every 10 MS

Time Mark Every: 60 S

Parameters

DLIS Name	Description	Value	
DSLT-FTB: Digitizing Sonic Logging Tool			
	Digitizer Mode	DSLC_FTB	
	DSLT FIFO Mode	SHOT	
AMSG	Auxiliary Minimum Sliding Gate	140	US
CBAF	CBL Adjustment Factor	1	
CBCF	CBL Correction Factor	1.8	
CDEL	Digitizing Delay	100	US
DDEL	Digitizing Delay	100	US
DFAD_TYPE	DFAD type	DFAD2	
DINT	Digitizer Sampling Interval	10	US
DNCS	DSLT DLIS Recording Size	100	
DSIN	Digitizing Sample Interval	10	
DTFS	DSLC Telemetry Frame Size	226	
DWCO	Digitizing Word Count	100	
FCD	Fluid Casing Density	1.2	
ITTS	Integrated Transit Time Source	DT	
MAMTR	Manual High Threshold Reference	150	
MGAIN	Master Gain	0	
MMTR	Minimum High Threshold Reference	100	
NMSG	Near Minimum Sliding Gate	100	US
NMSG	Near Maximum Sliding Gate	750	US
RFS	Firing Rate	FI:5	
SAT2	Signal Attenuation Attenuation Factor	0	DB/M
SGCL	Sliding Gate Clearing Delta-T	820	US/M
SGDT	Sliding Gate Delta-T	184	US/M
SGST	Sliding Gate Start	140	US
SLEV	Signal Level for AGC	3000	
WAGC	Waveform AGC Allow/Disallow	OFF	
WMOD	Waveform Filtering Mode	FULL	
HOLEV: Integrated Hole Volume Calculation			
FCD	Future Casing (Outer) Diameter	177.8	MM
WVCS	Integrated Hole Volume Caliper Selection	CAL1/CAL2	
DIR: Directional Survey Computation			
SPVD	Shallowest Survey Point	0	M
TMD	Along-hole depth of Tie-In Point	680.88	M
TVD	TVD of Tie-In Point	680.88	M
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	TrueVerticalDepth	
BS	Bit Size	216.000	MM
DO	Depth Offset for Playback	0.0	M
PBVSADP	Use alternate depth channel for playback	YES	
TD	Total Depth - Driller	NORMAL	
TD	Total Depth	3029	M

Format: SLT_S Vertical Scale: 1:240 Graphics File Created: 09-Mar-2002 01:39

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-FTB	SRX-2146-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

Indexed to True Vertical Depth in this Playback

Input DLIS Files

DEFAULT	AIT_SONIC_04RPUP	FN:50	PRODUCER	09-Mar-2002 00:30	2031.0 M 22.1 M

Output DLIS Files

DEFAULT	AIT_SONIC_007PUP	FN:7	PRODUCER	09-Mar-2002 01:38	
REDUCED	AIT_SONIC_007PUP	FN:8	PRODUCER	09-Mar-2002 01:39	

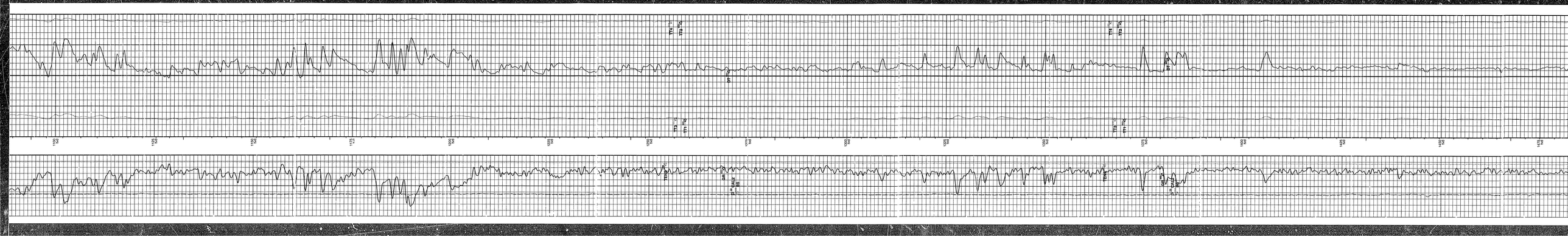
Input DLIS Files

DEFAULT	AIT_SONIC_002PUP	FN:1	PRODUCER	08-Mar-2002 22:37	2031.0 M 1943.9 M

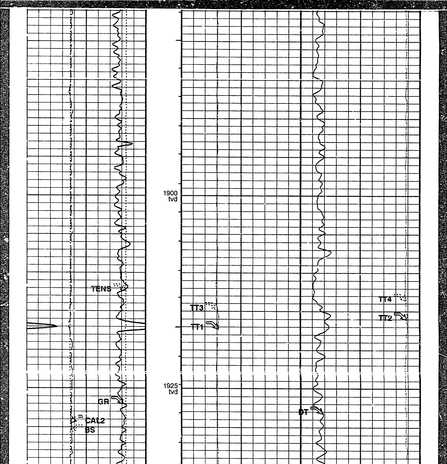
Output DLIS Files

DEFAULT	AIT_SONIC_003PUP	FN:2	PRODUCER	08-Mar-2002 22:44	1996.3 M 1911.7 M

Indexed to True Vertical Depth in this Playback



TP4
TP3
TP2
TP1
T1
T2
T3
T4
GAIN
TIME



Rib Filter (RIB)		Delta-T (DT)			
125 (MM)	375	500 (US/M)	100		
Caliper 2 (CAL2)		Transit Time 1 (TT1)		Transit Time 2 (TT2)	
125 (MM)	375	1200 (US)	200	1200 (US)	200
Gamma Ray (GR)		Transit Time 3 (TT3)		Transit Time 4 (TT4)	
0 (GAPI)	150	1200 (US)	200	1200 (US)	200
Tension (TENS)					
50000 (N)	0				

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
- Integrated Transit Time Minor Pip Every 1 MS
- Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSLT-FTB: Digitizing Sonic Logging Tool		
	Telemetry Mode	DSLC_FTB	
	DSLT Firing Mode	8HC	
AMSG	Auxiliary Minimum Sliding Gate	140	US
CBAF	CBL Adjustment Factor	1	
CBCF	CBL Correction Factor	1.6	
CBGS	CBL Gate Width	40	US
DDEL	CBL Gate Delay	100	US
DFAD_TYPE	DFAD Type	DFAD2	
DIVL	DSLT Depth Sampling Interval	0.25	
DRCS	DSLT DLIS Recording Size	100	
DSIN	Digitizing Sample Interval	10	
DTPS	DSLC Telemetry Frame Size	226	
GWCO	Digitizing Word Count	100	
MSG	Main Sliding Gate	40	
TTS	Integrated Transit Time Source	TT3	
MAHTR	Manual High Threshold Reference	120	
MGAI	Maximum Gain	60	
MNHTR	Minimum High Threshold Reference	100	
NMSG	Near Minimum Sliding Gate	150	US
NMXG	Near Maximum Sliding Gate	750	US
SPAF	Spacing Rate	2	
SPAF	Sonic Formation Attenuation Factor	1	DB/M
SGCL	Slide Gate Delta-T	625	US/M
SGDT	Sliding Gate Delta-T	184	US/M
SGW	Sliding Gate Width	80	US
SLEV	Signal Level for AGC	3500	
WAGC	Waveform AGC Allow/Disallow	OFF	
WMOD	Waveform Firing Mode	FULL	
	HOLEV: Integrated Hole/Caliper Volume		
FCD	Fixed Caliper (Bit Size) Diameter	177.8	MM
HVCS	Integrated Hole Volume Caliper Selection	CAL1/CAL2	
	DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-In Point	690.88	M
TIVD	TVD of Tie-In Point	690.88	M
	System and Miscellaneous		
ALTDPCHAN	Name of alternate depth channel	TrueVerticalDepth	
BS	Bit Size	216.00	MM
DO	Depth Offset for Playback	0.0	M
PBVBADP	Use alternate depth channel for playback	YES	
PD	Playback Processing	NORMAL	
TD	Total Depth	2028	M

Format: SLT_5_500 Vertical Scale: 1:240 Graphics File Created: 09-Mar-2002 01:39

OP System Version: 10C0-306

MCM

AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL
DTA-A	10C0-306	DSLT-FTB	SKK-2146-DSLT
SGT-N	10C0-306	DTC-H	10C0-306

Indexed to True Vertical Depth in this Playback

Input DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:59	PRODUCER	09-Mar-2002 00:30	2031.0 M 22.1 M

Output DLIS Files

DEFAULT	AIT_SONIC_007PUP	FN:7	PRODUCER	09-Mar-2002 01:38
REDUCED	AIT_SONIC_007PUP	FN:8	PRODUCER	09-Mar-2002 01:39

Calibration and Check Summary

Measurement	Nominal	Master	After	Change	Limit	Units
Array Induction Tool - H Wellsite Calibraton - Electronics Calibration Check - Thru Cal Mag. & Phase						
Master: 2-Jun-2002 12:58 Before: 8-Mar-2002 20:13						
Thru Cal Magnitude - 0	0	0.6195	0.6262	N/A	N/A	V
Thru Cal Magnitude - 1	0	1.274	1.287	N/A	N/A	V
Thru Cal Magnitude - 2	0	0.6308	0.6370	N/A	N/A	V
Thru Cal Magnitude - 3	0	0.7172	0.7247	N/A	N/A	V
Thru Cal Magnitude - 4	0	1.286	1.349	N/A	N/A	V
Thru Cal Magnitude - 5	0	1.939	1.960	N/A	N/A	V
Thru Cal Magnitude - 6	0	1.339	1.353	N/A	N/A	V
Thru Cal Magnitude - 7	0	1.402	1.420	N/A	N/A	V
Phase - 0	0	50.20	51.35	N/A	N/A	DEG
Phase - 1	0	48.08	50.25	N/A	N/A	DEG
Phase - 2	0	45.24	46.44	N/A	N/A	DEG
Phase - 3	0	44.41	45.81	N/A	N/A	DEG
Phase - 4	0	36.03	39.08	N/A	N/A	DEG
Phase - 5	0	36.10	37.38	N/A	N/A	DEG
Phase - 6	0	36.10	37.37	N/A	N/A	DEG
Phase - 7	0	33.11	33.69	N/A	N/A	DEG
Array Induction Tool - H Wellsite Calibration - Electronics Calibration Check - Auxiliary						
Master: 2-Jun-2002 12:58 Before: 8-Mar-2002 20:13						
Array Induction SPA Plus	990.5	994.0	994.7	N/A	N/A	MV
Array Induction SPA Zero	0	0.04861	-0.00262	N/A	N/A	MV
Array Induction Temperature R	0.9150	0.9200	0.9016	N/A	N/A	V
Array Induction Temperature Ze	0	-0.00004659	-0.00004417	N/A	N/A	V
Array Induction Tool - H Wellsite Calibration - Test Loop Gain Correction						
Master: 5-Jun-2002 19:59						
Test Loop Gain Magnitude - 0	0	1.014	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 1	0	1.049	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 2	0	1.018	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 3	0	1.027	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 4	0	0.9957	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 5	0	1.000	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 6	0	1.012	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 7	0	1.029	N/A	N/A	N/A	V
Phase - 0	0	0.3360	N/A	N/A	N/A	DEG
Phase - 1	0	0.6703	N/A	N/A	N/A	DEG
Phase - 2	0	0.1056	N/A	N/A	N/A	DEG
Phase - 3	0	0.2207	N/A	N/A	N/A	DEG
Phase - 4	0	-0.0201069	N/A	N/A	N/A	DEG
Phase - 5	0	-0.2747	N/A	N/A	N/A	DEG
Phase - 6	0	-0.1142	N/A	N/A	N/A	DEG
Phase - 7	0	-0.1002	N/A	N/A	N/A	DEG
Array Induction Tool - H Wellsite Calibration - Sonde Error Correction						
Master: 2-Jun-2002 12:58						
R Sonde Error Correction - 0	0	-64.75	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 1	0	172.3	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 2	0	14.3	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 3	0	-27.03	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 4	0	27.02	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 5	0	12.46	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 6	0	9.269	N/A	N/A	N/A	MM/M
R Sonde Error Correction - 7	0	-1.929	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 0	0	-37.52	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 1	0	-30.37	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 2	0	28.69	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 3	0	-64.65	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 4	0	22.90	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 5	0	8.293	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 6	0	6.220	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 7	0	1.570	N/A	N/A	N/A	MM/M
Array Induction Tool - H Wellsite Calibration - Mud Gain Correction						
Master: 2-Jun-2002 12:58						
Coarse - Mag. Real, Imag - 0	0	0.9680	N/A	N/A	N/A	
Coarse - Mag. Real, Imag - 1	0	0.9920	N/A	N/A	N/A	
Coarse - Mag. Real, Imag - 2	0	0.9920	N/A	N/A	N/A	
Fine - Mag. Real, Imag - 0	0	0.9968	N/A	N/A	N/A	
Fine - Mag. Real, Imag - 1	0	0.9999	N/A	N/A	N/A	
Fine - Mag. Real, Imag - 2	0	0.9999	N/A	N/A	N/A	
Eccentered Dual Axis Caliper Wellsite Calibration - Caliper 1 Calibration						
Before: 5-Mar-2002 13:52						
Caliper 1 Small Ring	203.2	N/A	67.93	N/A	N/A	MM
Caliper 1 Large Ring	304.8	N/A	132.2	N/A	N/A	MM
Eccentered Dual Axis Caliper Wellsite Calibration - Caliper 2 Calibration						
Before: 5-Mar-2002 13:52						
Caliper 2 Small Ring	203.2	N/A	32.34	N/A	N/A	MM
Caliper 2 Large Ring	304.8	N/A	54.00	N/A	N/A	MM
Scintillation Gamma-Ray - N Wellsite Calibration - Detector Calibration						
Before: 5-Mar-2002 20:11						
Gamma Ray (Thorium Pad)	150.0	N/A	150.0	N/A	N/A	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	15.00	GAPI

Array Induction Tool - H / Equipment Identification

Primary Equipment:	
Rm:SP Bottle Sonde	AHRM - A
Array Induction Sonde	AHIS - BA
	:45

Auxiliary Equipment:

Array Induction Tool - H Wellsite Calibration
Electronics Calibration Check - Thru Cal Mag. & Phase

Up	Phase	Value	Thru Cal Magnitude V	Nominal	Value		Phase DEG	Nominal
5	Master	0.6196		0.6083	50.20			71.00
	Before	0.6262			51.35			
6	Master	1.274		1.270	48.08			70.00
	Before	1.287			50.25			
7	Master	0.6308		0.6200	45.24			66.00
	Before	0.6370			46.44			
8	Master	0.7172		0.7040	44.41			65.00
	Before	0.7247			45.81			
9	Master	1.336		1.337	36.03			59.00
	Before	1.349			39.08			
10	Master	1.939		1.955	36.10			57.00
	Before	1.960			37.38			
11	Master	1.339		1.955	36.10			57.00
	Before	1.353			37.37			
12	Master	1.402		1.415	33.11			54.00
	Before	1.420			33.69			
		90.00 % Minimum	140.0 % Maximum	Nominal	Nom -60.00 Minimum		Nominal	Nom + 60.00 Maximum

Master: 2-Jun-2002 12:58 Before: 8-Mar-2002 20:13

Array Induction Tool - H Wellsite Calibration
Electronics Calibration Check - Auxiliary

Phase	Array Induction SPA Plus MV		Value	Phase	Array Induction SPA Zero MV		Value
Master			994.0	Master			-0.04861
Before			994.7	Before			-0.00262
	90.0 Minimum	999.7 Nominal	1140 Maximum		40.00 Minimum	0 Nominal	50.00 Maximum

Phase	Array Induction Temperature Plus V		Value	Phase	Array Induction Temperature Zero V		Value
Master			0.9200	Master			-4.659E-05
Before			0.9215	Before			-4.417E-05
	0.8700 Minimum	0.9150 Nominal	0.9600 Maximum		-0.00500 Minimum	0 Nominal	0.00500 Maximum

Master: 2-Jun-2002 12:58 Before: 8-Mar-2002 20:13

Minimum Nominal Maximum Minimum Nominal Maximum

Master: 2-Jun-2002 12:56 Before: 3-Mar-2002 20:13

Array Induction Tool - In Master Calibration
Vertical Deconvolution

Qlt	Value	Test Loop Gain Magnitude X			Value	Phase DEG		
1	1.014				0.000			0.000
		0.9500	1.000	1.050		0.000		
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
1	1.049				0.6752			
		0.9500	1.000	1.050		0.000		
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
2	1.014				0.1288			
		0.9500	1.000	1.050		0.000		
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
3	1.022				0.2458			
		0.9500	1.000	1.050		0.000		3.000
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
4	0.9937				-0.01799			
		0.9500	1.000	1.050		0.000		3.000
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
5	1.006				0.2147			
		0.9500	1.000	1.050		0.000		3.000
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
6	1.012				0.1142			
		0.9500	1.000	1.050		0.000		3.000
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
7	1.026				-0.1102			
		0.9500	1.000	1.050		0.000		3.000
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum

Master: 2-Jun-2002 12:56

Array Induction Tool - In Vehicle Calibration
Borehole Effect Correction

Qlt	Value	If Borehole Error Correction: MM IN			If Borehole Error Correction: MM IN		
0	-64.78			37.52			
		-200.0	-99.00	119.0	-200	0	200
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
1	179.2			30.37			
		179.0	199.0	204.0	626.0	626.0	626.0
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
2	113.5			29.69			
		98.00	117.0	136.0	26.0	26.0	26.0
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
3	64.99			44.65			
		39.00	64.00	89.00	2953	2953	2953
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
4	27.02			22.90			
		19.00	28.00	38.00	63.00	63.00	63.00
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
5	12.44			8.223			
		4.000	14.00	24.00	50.00	50.00	50.00
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
6	9.265			4.961			
		4.500	9.000	15.00	30.00	30.00	30.00
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
7	-1.925			1.970			
		-6.500	0.500	9.500	30.00	30.00	30.00
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum

Master: 2-Jun-2002 12:56

Array Induction Tool - In Vehicle Calibration
Mud Gain Correction

Qlt	Value	Coarse - Veg. Real - Veg.			Fine - Veg. Real - Veg.		
1	0.9990				0.9998		
		0.9500	1.000	1.050		0.9900	1.000
		Minimum	Nominal	Maximum		Minimum	Nominal
2	0.9990				0.9998		
		0.9975	1.000	1.005		0.9900	1.000
		Minimum	Nominal	Maximum		Minimum	Nominal
3	0.9990				0.9998		
		0.9500	1.000	1.050		0.9900	1.000
		Minimum	Nominal	Maximum		Minimum	Nominal

Master: 2-Jun-2002 12:56

Array Induction Tool - In Master Calibration
Electronics Calibration Check - Thru Cal Mag. & Phase

Qlt	Value	Thru Cal Magnitude V			Nominal	Phase DEG		Nominal
0	Master	0.8186			0.8186	50.00		50.00
						70.00		70.00
1	Master	1.274			1.272	49.08		
						89.00		89.00
2	Master	0.6308			0.6530	49.44		
						59.00		59.00
3	Master	0.7172			0.7340	44.41		
						87.00		87.00
4	Master	1.336			1.307	38.15		
						83.00		83.00
5	Master	1.938			1.955	38.13		
						Non -90.00		Non -90.00
6	Master	1.169			1.185	38.13		
		80.00 %			1415 %	30.11		
7	Master	1.402						
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum

Master: 2-Jun-2002 12:56

Array Induction Tool - In Master Calibration
Electronics Calibration Check

Phase	Array Induction SFA Rec 101	Value	Phase	Array Induction SFA Zero 101	Value
Master		994.0	Master		-0.04981
	1.8750	1.912		0.0000	0.0000
	Minimum	Nominal		Minimum	Nominal
Phase	Array Induction Temperature Rec 1	Value	Phase	Array Induction Temperature Zero 1	Value
Master		0.9809	Master		-4.6586 00
	1.8750	1.912		0.0000	0.0000
	Minimum	Nominal		Minimum	Nominal

Master: 2-Jun-2002 12:56

Array Induction Tool - In Master Calibration
Vertical Deconvolution

Qlt	Value	Test Loop Gain Magnitude X			Value	Phase DEG		
1	1.014				0.000			0.000
		0.9500	1.000	1.050		0.000		
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
1	1.049				0.6752			
		0.9500	1.000	1.050		0.000		
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
2	1.014				0.1288			
		0.9500	1.000	1.050		0.000		
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
3	1.022				0.2458			
		0.9500	1.000	1.050		0.000		3.000
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
4	0.9937				-0.01799			
		0.9500	1.000	1.050		0.000		3.000
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
5	1.006				0.2147			
		0.9500	1.000	1.050		0.000		3.000
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
6	1.012				0.1142			
		0.9500	1.000	1.050		0.000		3.000
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
7	1.026				-0.1102			
		0.9500	1.000	1.050		0.000		3.000
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum

Master: 2-Jun-2002 12:56

Array Induction Tool - In Master Calibration
Borehole Effect Correction

Qlt	Value	If Borehole Error Correction: MM IN			If Borehole Error Correction: MM IN		
0	-64.78			37.52			
		-200.0	-99.00	119.0	-200	0	200
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
1	179.2			30.37			
		179.0	199.0	204.0	626.0	626.0	626.0
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
2	113.5			29.69			
		98.00	117.0	136.0	26.0	26.0	26.0
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
3	64.99			44.65			
		39.00	64.00	89.00	2953	2953	2953
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
4	27.02			22.90			
		19.00	28.00	38.00	63.00	63.00	63.00
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
5	12.44			8.223			
		4.000	14.00	24.00	50.00	50.00	50.00
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
6	9.265			4.961			
		4.500	9.000	15.00	30.00	30.00	30.00
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum
7	-1.925			1.970			
		-6.500	0.500	9.500	30.00	30.00	30.00
		Minimum	Nominal	Maximum	Minimum	Nominal	Maximum

Master: 2-Jun-2002 12:56

Array Induction Tool - In Master Calibration
Mud Gain Correction

Qlt	Value	Coarse - Veg. Real - Veg.			Fine - Veg. Real - Veg.		
0	0.9990				0.9998		
		0.9500	1.000	1.050		0.9900	1.000
		Minimum	Nominal	Maximum		Minimum	Nominal
1	0.9990				0.9998		
		0.9975	1.000	1.005		0.9900	1.000
		Minimum	Nominal	Maximum		Minimum	Nominal
2	0.9990				0.9998		
		0.9500	1.000	1.050		0.9900	1.000
		Minimum	Nominal	Maximum		Minimum	Nominal

Master: 2-Jun-2002 12:56

Array Induction Tool - In Master Calibration
Electronics Calibration Check - Thru Cal Mag. & Phase

Qlt	Value	Thru Cal Magnitude V			Nominal	Phase DEG		Nominal
0	Master	0.8186			0.8186	50.00		50.00
						70.00		70.00
1	Master	1.274			1.272	49.08		
						89.00		89.00
2	Master	0.6308			0.6530	49.44		
						59.00		59.00
3	Master	0.7172			0.7340	44.41		
						87.00		87.00
4	Master	1.336			1.307	38.15		
						83.00		83.00
5	Master	1.938			1.955	38.13		
						Non -90.00		Non -90.00
6	Master	1.169			1.185	38.13		
		80.00 %			1415 %	30.11		
7	Master	1.402						
		Minimum	Nominal	Maximum		Minimum	Nominal	Maximum

Master: 2-Jun-2002 12:56

Array Induction Tool - In Master Calibration
SFA Loop Impedance Calibration

MISCELLANEOUS

N.E.B. COPY

Schlumberger

COMPANY: ANADARKO CANADA CORPORATION
&
ANADARKO NETLA A-68
NETLA
BRITISH COLUMBIA

RESERVOIR SATURATION LOG
SIGMA LOG

Province:	BRITISH COLUMBIA
Field:	NETLA
Well:	ANADARKO NETLA A-68
Company:	ANADARKO CANADA CORPORATION

LOCATION:
LSD: C-99-L/94-O-1
Elev.: K.B. 654.01 m
G.L. 649.3 m
D.F.
Permanent Datum: GROUND LEVEL
Elev.: 649.3 m
Log Measured From: KELLY BUSHING 4.7 m above Perm. Datum
Drilling Measured From: KELLY BUSHING

API Serial No.	Section	Township	Range

Logging Date	18-Feb-2004
Run Number	ONE
Depth Driller	2078 m
Schlumberger Depth	2060.1 m
Bottom Log Interval	2055 m
Top Log Interval	1750 m
Casing Fluid Type	FROZ FLUID
Salinity	40000 ppm
Density	
Fluid Level	
BIT/CASING/TUBING STRING	
Bit Size	156.000 mm
From	4.71 m
To	2078 m
Casing/Tubing Size	177.800 mm
Weight	34.69 kg/m
Grade	
From	4.71 m
To	2024 m
Maximum Recorded Temperatures	104 degC
Logger On Bottom Time	18-Feb-2004 12:00
Unit Number Location	2030 FT. ST. JOHN
Recorded By	CHRIS JACKSON/PETE ROOS
Witnessed By	JOE GRAVES

PVT DATA	Run 1	Run 2	Run 3	Run 4
Oil Density				
Water Salinity	40000 ppm			
Gas Gravity				
Bo				
Bw				
1/Bg				
Bubble Point Pressure				
Bubble Point Temperature				
Solution GOR				
Maximum Deviation				
CEMENTING DATA				
Primary/Squeeze	Primary			
Casing String No.				
Lead Cement Type				
Volume				
Density				
Water Loss				
Additives				
Tail Cement Type				
Volume				
Density				
Water Loss				
Additives				
Expected Cement Top				

THE USE OF AND RELIANCE UPON THIS RECORDED DATA BY ANADARKO CANADA CORPORATION AND ANY OF ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND ANADARKO CANADA CORPORATION, INCLUDING WITHOUT LIMITATION THE EXCLUSION OF ALL WARRANTIES AND THE LIMITATION OF LIABILITY AND INDEMNITY PROVISIONS CONTAINED THEREIN.

OTHER SERVICES?
OS1
OS2
OS3
OS4
OS5
REMARKS: TCN TYPE/SET

REMARKS: TCN NUMBER/'2

PRODUCTION CASING DATA - 177.8 MM O.D. - 38.69 #/LM LANDED @ 2084 MKB
RUN TWO WAS SHORT AND FOUND AT 2060 MKB
RUN THREE WAS SHORT AND FOUND AT APPROX 2050 MKB
AFTER WELL IS PUMPED OFF AND FOUND AT 2019 MKB

BOTTOM HOLE TEMPERATURE - 104.0 DEG C
NO TD CORRECTION WAS APPLIED
NO TD CORRECTION LEVEL FOUND TO BE 4.71 METERS

-REPEAT ANALYSIS SHOWS HIGH GR COUNT DUE TO ACTIVATION.

LOGGED MAIN PASS FROM FBTD TO 1700 MKB
LOGGED REPEAT ANALYSIS FROM FBTD TO TL
LOGGED REPEAT PASS FROM FBTD TO TL

SERVICE ORDER #
PROGRAM VERSION
RUN 1 1958451 START
LOGGED INTERVAL 1958365 STOP
MKB

RUN 2
SERVICE ORDER #
PROGRAM VERSION
LOGGED INTERVAL START STOP

EQUIPMENT DESCRIPTION

	RUN 1	RUN 2
WITNESS		
SURFACE EQUIPMENT		
DOWNHOLE EQUIPMENT		
MH-22	13.98	
AM-5C		
AH-36	13.50	
AH-2		
EDP-43	13.20	
EDP-43		
EDP-43	11.37	
EDP-43		
RSFT-A/B	9.54	
RSCI-A		
RSPC-A Pressure Micro	8.41	
RTH-A Thermometer		
RSHS-A	7.43	
RSHS-B	7.23	
RSHS	7.02	
RSCT-C		
RSCI-C		
RSCI-A	4.24	
RSCI-B		
RSCT-C	4.09	
RSCI-A for RSCI-B and RSCI-A PNS		
Tension -Y/-	0.00	
TOOL ZERO		

MAXIMUM STRING DIAMETER=4.140
MINIMUM STRING DIAMETER=3.625
ALL LENGTHS IN METERS

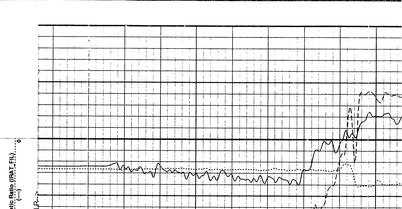
Schlumberger

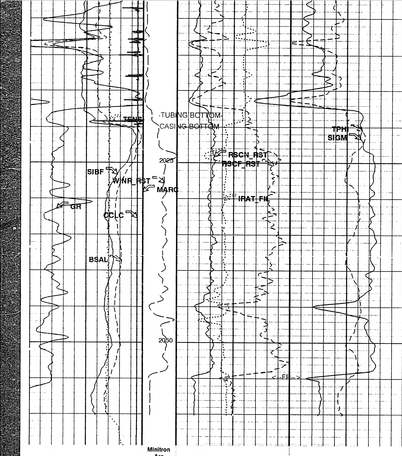
MAIN PASS SIGMA
DOLOMITE MATRIX

Input DLIS Files
FILE# PRODUCER 19-Feb-2004 15:01 2064.3 M 1952.8 M
Output DLIS Files
FILE# PRODUCER 19-Feb-2004 13:09 2064.3 M 1952.8 M

OP System Version: 11C0-305

DEFAULT	RST_PIP_DUMPUP	PIP SUMMARY	RSPT-A/B	OP11-HP1
DEFAULT	RST_PIP_DUMPUP			
RST-C	OP11-HP1			
Time Mark Every 60 S	Tension (TENS) 10000 LBF	0	Pressure (PRES) 10000 PSIG	0
Cooperative QC (QCC)	0.5			
RST Sigma Borehole Fluid (SIBF)	100	60		0
Gamma Ray (GR)	0	150		
RST Porosity (TPHI) (V/V)	0.45	0		-0.15
RST Near Effective Capture CR (RSCR_N) (CU)	0	150		
RST Far Effective Capture CR (RSCF_F) (CU)	0	150		
RST Inelastic/Capture Ratio (INFL)	0	4		
Matrix Capture Cross Section (SIGM)	0	30		
RST Borehole Sigma (SIBH) (CU)	60	0		
RST Near/Far Ratio (RSCR_N/RSCF_F)	2	0		





Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	RST-C: Reservoir Saturation Pro Tool C		
AIRB	RST Air Borehole	No	
BHS	Borehole Status	OPEN	
CSID	Casing Size I.D.	159.4	MM
DFPC	Depth Filter Processing Constant	One	
MATR	Rock Matrix for Neutron Porosity Corrections	DOLOMITE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.46	
NORM_SIGM_RST	RST Normalized Sigma	3	M-1
RGAI	Near/Far Gain Calibration Ratio	1	
	PSPT-A/B: Production Services Logging Platform		
EHS	Borehole Status	OPEN	
HSID	Casing Size I.D.	159.4	MM
MATH	Rock Matrix for Neutron Porosity Corrections	DOLOMITE	
	System and Miscellaneous		
BS	Bit Size	156.000	MM
SBAL	Borehole Salinity	-60000.00	PPM
CSIZ	Current Casing Size	177.800	MM
CWEI	Casing Weight	34.60	KG/M
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: RST_PORO_SIGMA Vertical Scale: 1:240 Graphics File Created: 19-Feb-2004 12:08

OP System Version: 11C0-305

MCM

RST-C	OP11-KP1	PSPT-A/B	OP11-KP1

Input DLIS Files

DEFAULT	RST_PSP_029PUP	FN:28	PRODUCER	18-Feb-2004 15:01	2064.3 M	1952.2 M

Output DLIS Files

DEFAULT	RST_PSP_055PUP	FN:54	PRODUCER	19-Feb-2004 13:08		

Schlumberger

MAIN PASS SIGMA LIMESTONE MATRIX

Input DLIS Files

DEFAULT	RST_PSP_029PUP	FN:28	PRODUCER	18-Feb-2004 15:01	2064.3 M	1952.2 M

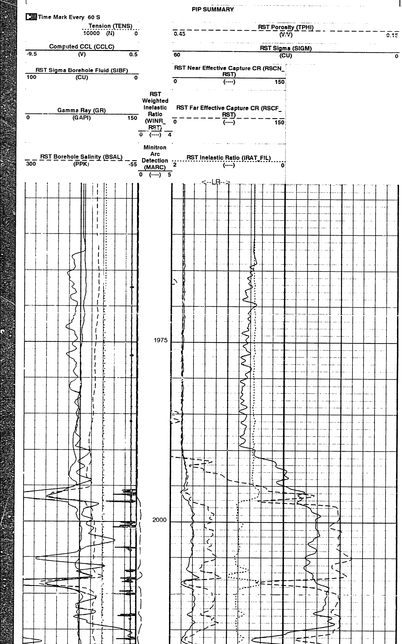
Output DLIS Files

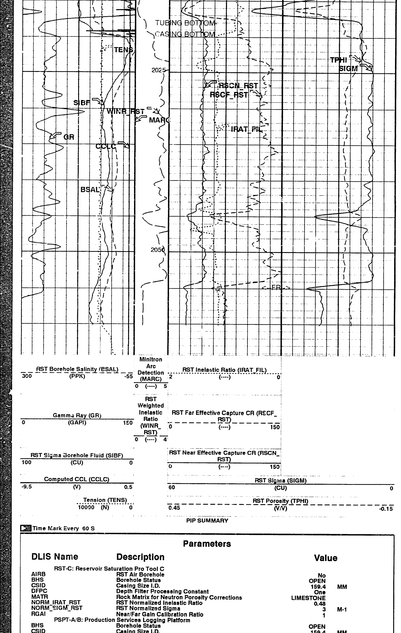
DEFAULT	RST_PSP_056PUP	FN:55	PRODUCER	19-Feb-2004 13:09	2064.3 M	1952.9 M

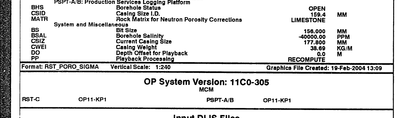
OP System Version: 11C0-305

MCM

RST-C	OP11-KP1	PSPT-A/B	OP11-KP1







Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	RST-C: Reservoir Saturation Pro Tool C		
AIRB	RST Air Borehole	No	
BHS	Borehole Status	OPEN	
CSID	Casing Size I.D.	159.4	MM
DFPC	Depth Filter Processing Constant	One	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.46	
NORM_SIGM_RST	RST Normalized Sigma	3	M-1
RGAI	Near/Far Gain Calibration Ratio	1	
	PSPT-A/B: Production Services Logging Platform		
BHS	Borehole Status	OPEN	
CSID	Casing Size I.D.	159.4	MM
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
	System and Miscellaneous		
BS	Bit Size	156.000	MM
SBAL	Borehole Salinity	-60000.00	PPM
CSIZ	Current Casing Size	177.800	MM
CWEI	Casing Weight	38.69	KG/M
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: RST_PORO_SIGMA Vertical Scale: 1:240 Graphics File Created: 19-Feb-2004 13:09

OP System Version: 11C0-305

MCM

RST-C	OP11-KP1	PSPT-A/B	OP11-KP1

Input DLIS Files

DEFAULT	RST_PSP_029PUP	FN:28	PRODUCER	18-Feb-2004 15:01	2064.3 M	1952.2 M

Output DLIS Files

DEFAULT	RST_PSP_056PUP	FN:55	PRODUCER	19-Feb-2004 13:09		

Schlumberger

REPEAT ANALYSIS DOLOMITE MATRIX

Input DLIS Files

DEFAULT	RST_PSP_029PUP	FN:28	PRODUCER	18-Feb-2004 15:01	2064.3 M	1952.2 M
DEFAULT	RST_PSP_021PUP	FN:20	PRODUCER	18-Feb-2004 14:27	2062.9 M	1729.9 M

Output DLIS Files

DEFAULT	RST_PSP_037PUP	FN:56	PRODUCER	19-Feb-2004 13:11	2064.3 M	1950.3 M

OP System Version: 11C0-305

MCM

RST-C	OP11-KP1	PSPT-A/B	OP11-KP1

PIP SUMMARY

Time Mark Every 60 S

TENS_REP Curve (TENS_REP): 10000 (lbf) 0

TPHI_REP Curve (TPHI_REP): 0.45 (V/V) -0.15

RST_SIBF_REP Curve (SIBF_REP): 100 (CU) 0

SIGM_REP Curve (SIGM_REP): 60 (CU) 0

GR_REP Curve (GR_REP): 0 (GAPI) 150

RST_RSCN_REP Curve (RSCN_RST_REP): 0 (---) 150

CCLC_REP Curve (CCLC_REP): -9.5 (V) 0.5

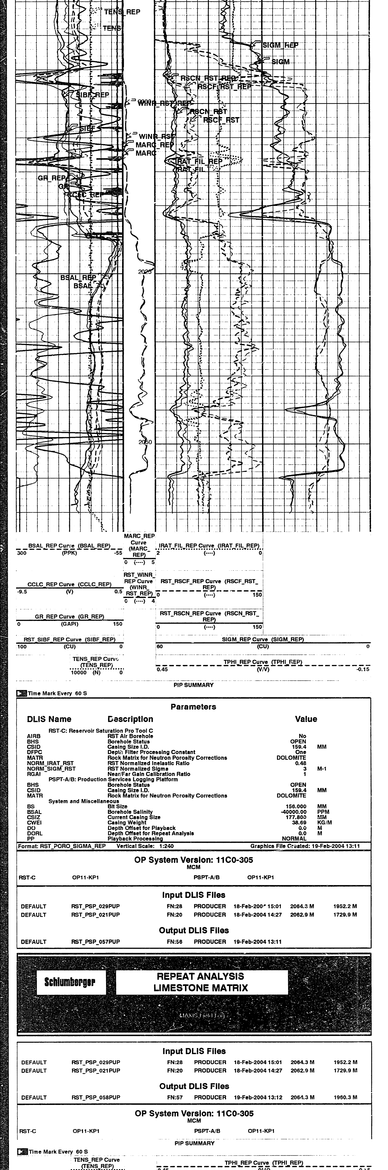
RST_WINR_REP Curve (WINR_RST_REP): 0 (---) 4

RST_RSCF_REP Curve (RSCF_RST_REP): 0 (---) 150

BSAL_REP Curve (BSAL_REP): 300 (PPM) 55

MARC_REP Curve (MARC_REP): 0 (---) 5

IRAT_FIL_REP Curve (IRAT_FIL_REP): 2 (---) 0



BSAL_REP Curve (BSAL_REP): 300 (PPM) 55
MARC_REP Curve (MARC_REP): 0 (---) 5
IRAT_FIL_REP Curve (IRAT_FIL_REP): 2 (---) 0
CCLC_REP Curve (CCLC_REP): -9.5 (V) 0.5
RST_WINR_REP Curve (WINR_RST_REP): 0 (---) 4
RST_RSCF_REP Curve (RSCF_RST_REP): 0 (---) 150
GR_REP Curve (GR_REP): 0 (GAPI) 150
RST_RSCN_REP Curve (RSCN_RST_REP): 0 (---) 150
RST_SIBF_REP Curve (SIBF_REP): 100 (CU) 0
SIGM_REP Curve (SIGM_REP): 60 (CU) 0
TENS_REP Curve (TENS_REP): 10000 (lbf) 0
TPHI_REP Curve (TPHI_REP): 0.45 (V/V) -0.15

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	RST-C: Reservoir Saturation Pre Tool C		
AIRB	RST Air Borehole	No	
BHS	Borehole Status	OPEN	
CSIZ	Casing Size I.D.	159.4	MM
DFPC	Density Processing Constant	0.395	
MATR	Rock Matrix for Neutron Porosity Corrections	DOLOMITE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48	
NORM_SIGM_RST	RST Normalized Sigma	3	M-1
RGAI	Near/Far Gain Calibration Ratio	1	
	PSPT-A/B: Production Services Platform		
BHS	Borehole Status	OPEN	
CSID	Casing Size I.D.	159.4	MM
MATR	Rock Matrix for Neutron Porosity Corrections	DOLOMITE	
	System and Miscellaneous		
BS	Bit Size	155.000	MM
BSAL	Borehole Salinity	-60000.00	PPM
CSIZ	Current Casing Size	177.800	MM
DFD	Density Fluid	1.00	G/CM
OVD	Depth Offset for Playback	0.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
PP	Playback Processing	NORMAL	

Format: RST_PCRO_SIGMA_REP Vertical Scale: 1:240 Graphics File Created: 19-Feb-2004 13:11

OP System Version: 11C0-305

MCM

RST-C	OP11-KP1	PSPT-A/B	OP11-KP1

Input DLIS Files

DEFAULT	RST_PSP_029PUP	FN:28	PRODUCER	18-Feb-2004 15:01	2064.3 M	1952.2 M
DEFAULT	RST_PSP_021PUP	FN:20	PRODUCER	18-Feb-2004 14:27	2062.9 M	1729.9 M

Output DLIS Files

DEFAULT	RST_PSP_056PUP	FN:57	PRODUCER	19-Feb-2004 13:12	2064.3 M	1950.3 M

OP System Version: 11C0-305

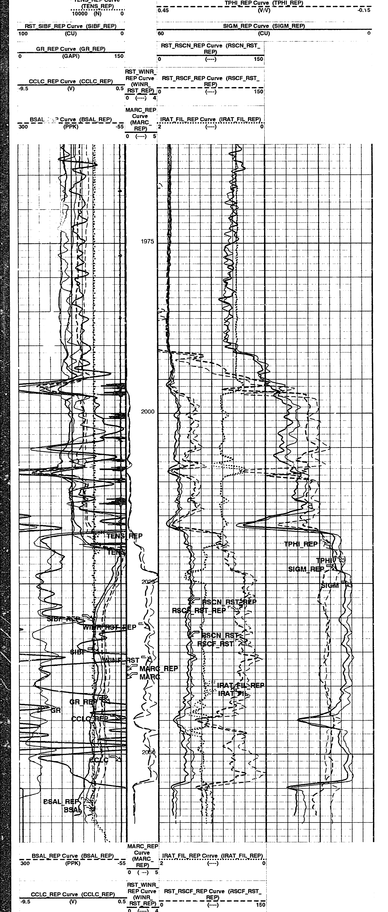
MCM

RST-C	OP11-KP1	PSPT-A/B	OP11-KP1

PIP SUMMARY

Time Mark Every 60 S

TENS_REP Curve (TENS_REP): 10000 (lbf) 0
TPHI_REP Curve (TPHI_REP): 0.45 (V/V) -0.15
RST_SIBF_REP Curve (SIBF_REP): 100 (CU) 0
SIGM_REP Curve (SIGM_REP): 60 (CU) 0
GR_REP Curve (GR_REP): 0 (GAPI) 150
RST_RSCN_REP Curve (RSCN_RST_REP): 0 (---) 150
CCLC_REP Curve (CCLC_REP): -9.5 (V) 0.5
RST_WINR_REP Curve (WINR_RST_REP): 0 (---) 4
RST_RSCF_REP Curve (RSCF_RST_REP): 0 (---) 150
BSAL_REP Curve (BSAL_REP): 300 (PPM) 55
MARC_REP Curve (MARC_REP): 0 (---) 5
IRAT_FIL_REP Curve (IRAT_FIL_REP): 2 (---) 0



BSAL_REP Curve (BSAL_REP): 300 (PPM) 55
MARC_REP Curve (MARC_REP): 0 (---) 5
IRAT_FIL_REP Curve (IRAT_FIL_REP): 2 (---) 0
CCLC_REP Curve (CCLC_REP): -9.5 (V) 0.5
RST_WINR_REP Curve (WINR_RST_REP): 0 (---) 4
RST_RSCF_REP Curve (RSCF_RST_REP): 0 (---) 150
GR_REP Curve (GR_REP): 0 (GAPI) 150
RST_RSCN_REP Curve (RSCN_RST_REP): 0 (---) 150
RST_SIBF_REP Curve (SIBF_REP): 100 (CU) 0
SIGM_REP Curve (SIGM_REP): 60 (CU) 0
TENS_REP Curve (TENS_REP): 10000 (lbf) 0
TPHI_REP Curve (TPHI_REP): 0.45 (V/V) -0.15

Schlumberger

REPEAT ANALYSIS
LIMESTONE MATRIX

Input DLIS Files

DEFAULT	RST_PSP_029PUP	FN:28	PRODUCER	18-Feb-2004 15:01	2064.3 M	1952.2 M
DEFAULT	RST_PSP_021PUP	FN:20	PRODUCER	18-Feb-2004 14:27	2062.9 M	1729.9 M

Output DLIS Files

DEFAULT	RST_PSP_056PUP	FN:57	PRODUCER	19-Feb-2004 13:12	2064.3 M	1950.3 M

OP System Version: 11C0-305

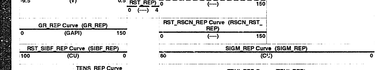
MCM

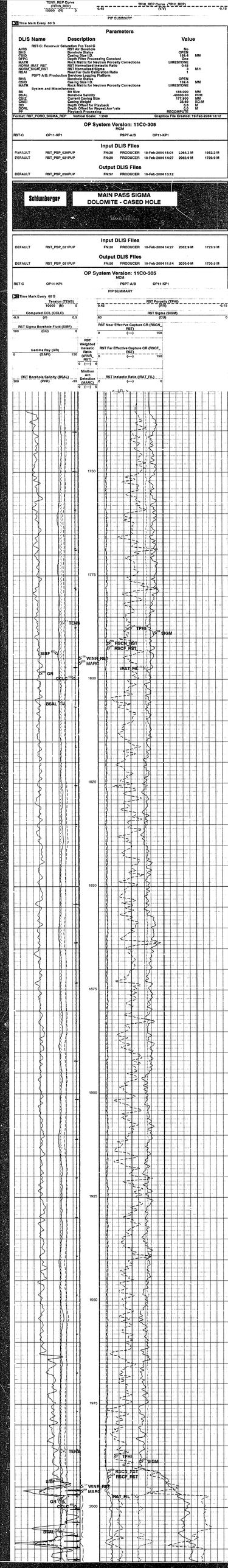
RST-C	OP11-KP1	PSPT-A/B	OP11-KP1

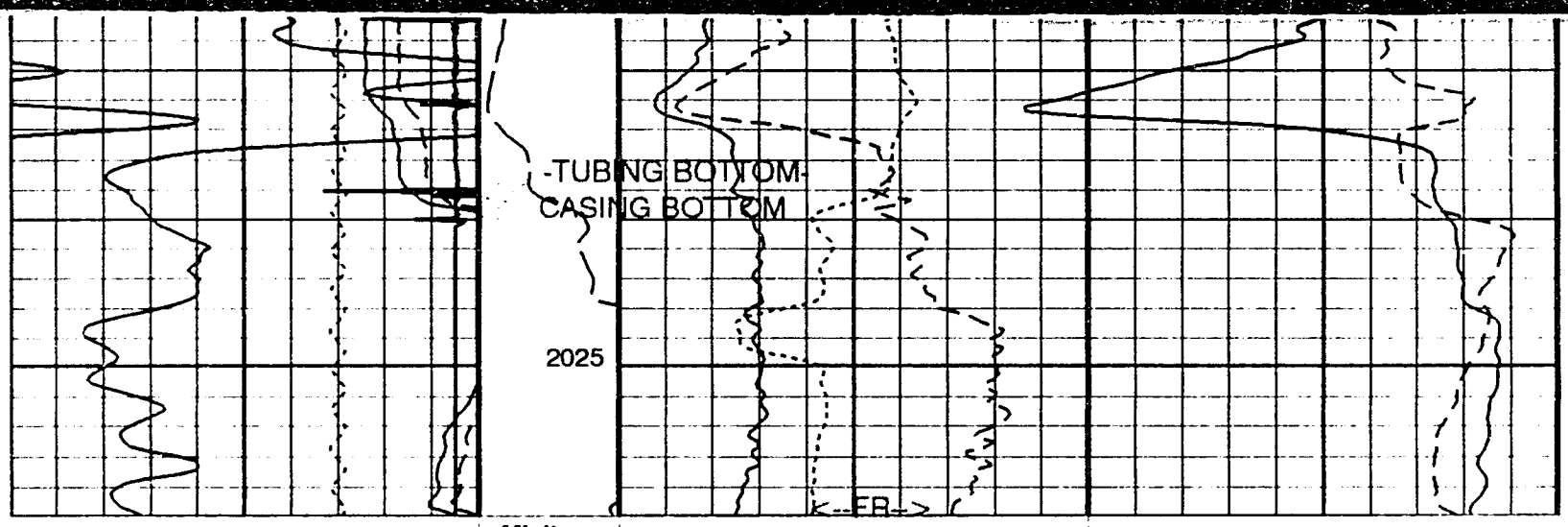
PIP SUMMARY

Time Mark Every 60 S

TENS_REP Curve (TENS_REP): 10000 (lbf) 0
TPHI_REP Curve (TPHI_REP): 0.45 (V/V) -0.15
RST_SIBF_REP Curve (SIBF_REP): 100 (CU) 0
SIGM_REP Curve (SIGM_REP): 60 (CU) 0
GR_REP Curve (GR_REP): 0 (GAPI) 150
RST_RSCN_REP Curve (RSCN_RST_REP): 0 (---) 150
CCLC_REP Curve (CCLC_REP): -9.5 (V) 0.5
RST_WINR_REP Curve (WINR_RST_REP): 0 (---) 4
RST_RSCF_REP Curve (RSCF_RST_REP): 0 (---) 150
BSAL_REP Curve (BSAL_REP): 300 (PPM) 55
MARC_REP Curve (MARC_REP): 0 (---) 5
IRAT_FIL_REP Curve (IRAT_FIL_REP): 2 (---) 0




TENS_REP Curve
(TENS_REP)
10000 (N) 0
TPHI_REP Curve (TPHI_REP)
0.45 (V/V) 0.15
Time Mark Every 60 S
PIP SUMMARY
Parameters
DLIS Name
Description
Value
RST-C: Reservoir Saturation Pro Tool C
AIRB RST Air Borehole No
BHS Borehole Status OPEN
CSID Casing Size I.D. 159.4 MM
DFPC Depth Filter Processing Constant One
MATR Rock Matrix for Neutron Porosity Corrections LIMESTONE
NORM_IRAT_RST RST Normalized Inelastic Ratio 0.48
NORM_SIGM_RST RST Normalized Sigma 3 M-1
RUN Run Number for Acquisition Ratio 1
PSPT-A/B: Production Services Logging Platform
BHS Borehole Status OPEN
CSID Casing Size I.D. 159.4 MM
MATR Rock Matrix for Neutron Porosity Corrections LIMESTONE
System and Miscellaneous
BS Bit Size 155.000 MM
IBAL Borehole Salinity -60000.00 PPM
CSIZ Casing Outside Size 177.80 MM
CWG Casing Weight 34.69 KG/M
DO Depth Offset for Playback 0.0 M
DORL Depth Offset for Repeat Anal sis 0.0 M
PP Playback Processing RECOMPUTE
Format: RST_PORO_SIGMA_REP Vertical Scale: 1:240 Graphics File Created: 19-Feb-2004 13:12
OP System Version: 11C0-305
MCM
RST-C OP11-KP1 PSPT-A/B OP11-KP1
Input DLIS Files
DEFAULT RST_PSP_029PUP FN:28 PRODUCER 18-Feb-2004 15:01 1264.3 M 1652.2 M
DEFAULT RST_PSP_021PUP FN:20 PRODUCER 18-Feb-2004 14:27 2082.9 M 1729.9 M
Output DLIS Files
DEFAULT RST_PSP_056PUP FN:57 PRODUCER 19-Feb-2004 13:12
Schlumberger
MAIN PASS SIGMA
DOLOMITE - CASED HOLE
TENS (LBF)
Input DLIS Files
DEFAULT RST_PSP_021PUP FN:20 PRODUCER 18-Feb-2004 14:27 2082.9 M 1729.9 M
Output DLIS Files
DEFAULT RST_PSP_051PUP FN:50 PRODUCER 19-Feb-2004 11:14 2030.9 M 1730.5 M
OP System Version: 11C0-305
MCM
RST-C OP11-KP1 PSPT-A/B OP11-KP1
PIP SUMMARY
Time Mark Every 60 S
Tension (TEN5)
10000 (N) 0
RST Porosity (TPHI)
0.45 (V/V) 0.15
Computed CCL (CCLC)
-0.5 (V) 0.5
RST Sigma (SIGM)
60 (CU) 0
RST Sigma Borehole Fluid (SIBF)
100 (CU) 0
RST Near Effective Capture CR (RSCN_RST)
0 (---) 150
RST Weighted Inelastic Ratio (WINR_RST)
0 (---) 4
Gamma Ray (GR)
0 (GAPI) 150
RST Far Effective Capture CR (RSCF_RST)
0 (---) 100
RST Borehole Salinity (BSAL)
300 (PPK) -60
Minitron Arc Detection (MARC)
0 (---) 5
RST Inelastic Ratio (IRAT_FIL)
2 (---) 0
TENS
TPHI
SIGM
RSCN_RST
RSCF_RST
SIBF
WINR_RST
MARC
IRAT_RST
GR
CCLC
BSAL
1750
1775
1800
1825
1850
1875
1900
1925
1950
1975
2000
TENS
TPHI
SIDM
RSCN_RST
RSCF_RST
SIBF
WINR_RST
MARC
IRAT_FIL
GR
CCLC
BSAL



RST Borehole Salinity (BSAL)
300 (PPK) -55

Minitron Arc Detection (MARC)
0 (----) 5

RST Inelastic Ratio (IRAT_FIL)
2 (----) 0

Gamma Ray (GR)
0 (GAPI) 150

RST Weighted Inelastic Ratio (WINR_RST)
0 (----) 4

RST Far Effective Capture CR (RSCF_RST)
0 (----) 150

RST Sigma Borehole Fluid (SIBF)
100 (CU) 0

RST Near Effective Capture CR (RSCN_RST)
0 (----) 150

Computed CCL (CCLC)
-9.5 (V) 0.5

RST Sigma (SIGM)
60 (CU) 0

Tension (TENS)
10000 (N) 0

RST Porosity (TPHI)
0.45 (V/V) -0.15

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	RST-C: Reservoir Saturation Pro Tool C		
AIRB	RST Air Borehole	No	
BHS	Borehole Status	CASED	
CSID	Casing Size I.D.	159.4	MM
DFPC	Depth Filter Processing Constant	One	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48	
NORM_SIGM_RST	RST Normalized Sigma	3	M-1
RGAI	Near/Far Gain Calibration Ratio	1	
	PSPT-A/B: Production Services Logging Platform		
BHS	Borehole Status	CASED	
CSID	Casing Size I.D.	159.4	MM
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
	System and Miscellaneous		
BS	Bit Size	156.000	MM
BSAL	Borehole Salinity	-40000.00	PPM
CSIZ	Current Casing Size	177.800	MM
CWEI	Casing Weight	38.69	KG/M
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: RST_PORO_SIGMA Vertical Scale: 1:240 Graphics File Created: 19-Feb-2004 11:14

OP System Version: 11C0-305

MCM

RST-C	OP11-KP1	PSPT-A/B	OP11-KP1

Input DLIS Files

DEFAULT	RST_PSP_021PUP	FN:20	PRODUCER	18-Feb-2004 14:27	2062.9 M	1729.9 M

Output DLIS Files

DEFAULT	RST_PSP_051PUP	FN:50	PRODUCER	19-Feb-2004 11:14

Company ANADARKO CANADA CORPORATION

Schlumberger

Well ANADARKO NETLA A-68

Field NETLA

Province BRITISH COLUMBIA

RESERVOIR SATURATION LOG
SIGMA LOG

Schlumberger

ANADARKO CANADA ENERGY

ANADARKO NETLA A-68

NETLA

NORTHWEST TERRITORIES

Measured Depth

CEMENT VOLUME LOG

Province: N.W.T.	
Field: 05-14A, W4/7-74, 02/-W-W4	
Well: ANADARKO NETLA A-68	
Company: ANADARKO CANADA ENERGY	

LOC: A-68 / 60 47' 7.4", 122 41' 36.9"

UWI/ID: 300A686050122000

Elev.: K.B. 654.1 m
G.L. 649.2 m
D.F. 653.6 m

Permanent Datum: GROUND LEVEL — Elev.: 649.2 m
Log Measured From: KELLY BUSHING — 4.9 m above Perm. Datum
Drilling Measured From: KELLY BUSHING

	Run 1	Run 2	Run 3	Run 4
API Serial No.	1936	n/a	n/a	n/a
Logging Date	8-Mar-2002			
Run Number	ONE			
Depth Driller	2028 m			
Schlumberger Depth	2028 m			
Bottom Log Interval	2025.8 m			
Top Log Interval	560 m			
Casing Driller Size @ Depth	244.500 mm @ 560 m		@	@
Casing Schlumberger	560 m			
Bit Size	216.000 mm			
Type Fluid In Hole	INVERT			
Density / Viscosity	960 kg/m3 / 52 s			
PH / Fluid Loss	PH			
Source Of Sample	N/A			
RM @ Measured Temperature	@	@	@	@
RMF @ Measured Temperature	@	@	@	@
RMC @ Measured Temperature	@	@	@	@
Source RMF / RMC	N/A / N/A			
RM @ MRT / RMF @ MRT	@ 76 / @ 76	@ 76 / @ 76	@ / @	@ / @
Maximum Recorded Temperatures	76 degC			
Circulation Stopped / Time	8-Mar-2002 / 12:00			
Logger On Bottom / Time	8-Mar-2002 / 21:00			
Unit Number / Location	2031 / GRANDE PRAIRIE			
Recorded By	TYLER MAKSYMCHUK			
Witnessed By	BEN URLWIN			

	Run 1	Run 2	Run 3	Run 4
Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Driller Size @ Depth		@	@	@
Casing Schlumberger				
Bit Size				
Type Fluid In Hole				
Density / Viscosity	MUD			
PH / Fluid Loss				
Source Of Sample				
RM @ Measured Temperature		@	@	@
RMF @ Measured Temperature		@	@	@
RMC @ Measured Temperature		@	@	@
Source RMF / RMC				
RM @ MRT / RMF @ MRT		@ / @	@ / @	@ / @
Maximum Recorded Temperatures				
Circulation Stopped / Time				
Logger On Bottom / Time				
Unit Number / Location				
Recorded By				
Witnessed By				

DEPTH SUMMARY LISTING

Date Created: 8-MAR-2002 22:22:48

Depth System Equipment

Depth Measuring Device

Type	IDW-B
Serial Number	1936
Calibration Date	18-FEB-2002
Calibration Serial Number	7
Calibration Cable Type	7-46P
Wheel Correction 1	0
Wheel Correction 2	0

Tension Device

Type	CMTD-B/A
Serial Number	1936
Calibration Date	31-JAN-2002
Calibration Serial Number	698
Calibration Weight	1.58
Calibration Offset	1222.00

Logging Cable

Type	7-46V/XS
Serial Number	1936
Length	5679.96 M
Conveyance Method	Wireline
Rig Type	LAND

Depth Control Parameters

Log Sequence	First Log In the Well
Rig Up Length At Surface	0.00 M
Rig Up Length Correction	0.00 M
Rig Up Length Correction	0.00 M
Tool Zero Check At Surface	29.26 M

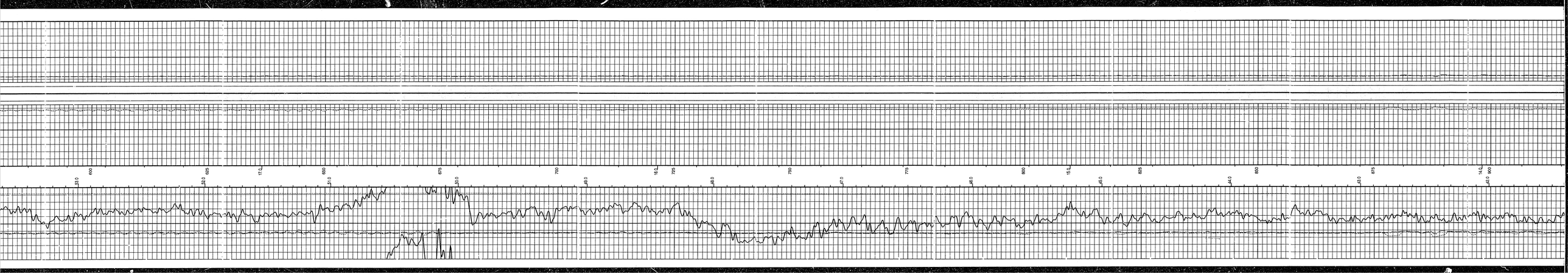
Depth Control Remarks

1 TOOL ZERO AGP KB
2
3
4
5
6

DPCC-A/EP
THE LATEST ARM/TNPH INTERPRETATION TYPE RESPONSES ARE THE FOLLOWING: ARM-10 (07-JUN-01) TNPH-10 (07-JUN-01).
ALL DEPTHS REFERENCED TO KELLY BUSHING (KB) ELEVATION 4.9 M ABOVE PERMANENT DATUM (GROUND LEVEL).
SEE EPTE RECORDED DATUM, BLENDED HARDNESS AND MINERALOGY PARAMETERS ARE REFERENCED IN PROCESSING.
ALL DEPTHS REFERENCED TO KELLY BUSHING (KB) ELEVATION 4.9 M ABOVE PERMANENT DATUM (GROUND LEVEL).
FOR ANY INTERFACE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED DATA.

CHANNELS PRESENT ON FINAL PRINTS
DS1 ARM PRODUCTION LOG — DS1-SHIFTED SERVICES
DS2 TNPH PRODUCTION LOG — DS2L
DS3 CEMENT VOLUME — DS3L
DS4 GAMMA RAY TO SURFACE — DS4L
DS5 ARM — DS5L
REMARK: RUN NUMBER ZONING INTERVALS PERFORATED RECEIVED
NO CORRECTION WAS MADE FOR CASING THICKNESS
NO CONTROL WAS RUN IN COMPUTE PASS 2 RESISTIVITY MODE WITH
NO CORRECTION FOR CASING
SCHLUMBERGER RUN WITH 3 RUBBER STANDOFFS AND 3 CENTRALIZERS
FOR CENTRALIZATION

RUN THROUGH INJECTION STRING
RUN THROUGH 2 7/8" EUE TUBING
RUN THROUGH 3 1/2" EUE TUBING
RUN THROUGH 4 1/2" EUE TUBING
RUN THROUGH 5" EUE TUBING
RUN THROUGH 5 1/2" EUE TUBING
RUN THROUGH 7" CASING
RUN THROUGH 9 5/8" CASING
RUN THROUGH 10 3/4" CASING
RUN THROUGH 13 3/8" CASING
RUN THROUGH 16" CASING
RUN THROUGH 20" CASING
RUN THROUGH 24" CASING
RUN THROUGH 30" CASING
RUN THROUGH 36" CASING
RUN THROUGH 42" CASING
RUN THROUGH 48" CASING
RUN THROUGH 54" CASING
RUN THROUGH 60" CASING
RUN THROUGH 66" CASING
RUN THROUGH 72" CASING
RUN THROUGH 78" CASING
RUN THROUGH


600
625
650
675
700
725
750
775
800
825
850
875
900

925
950
975
1000
1025
1050
1075
1100
1125
1150
1175
1200
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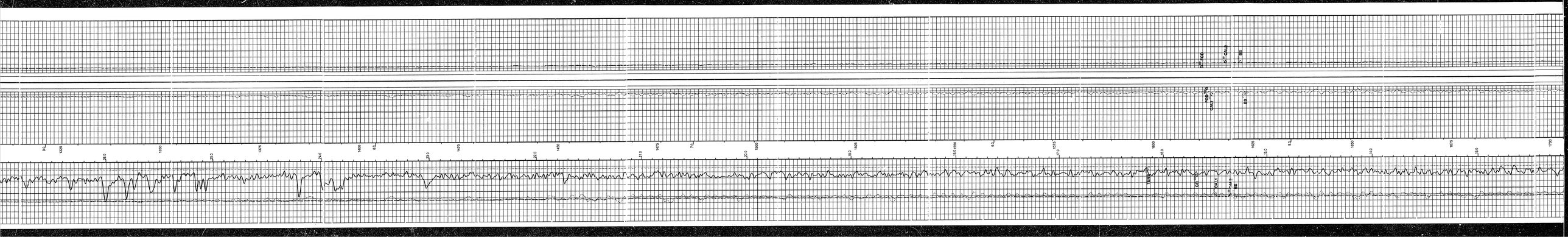
8.4
1325
1350
1375
1400
8.4
1425
1450
7.4
1475
1500
1525
1550
8.4
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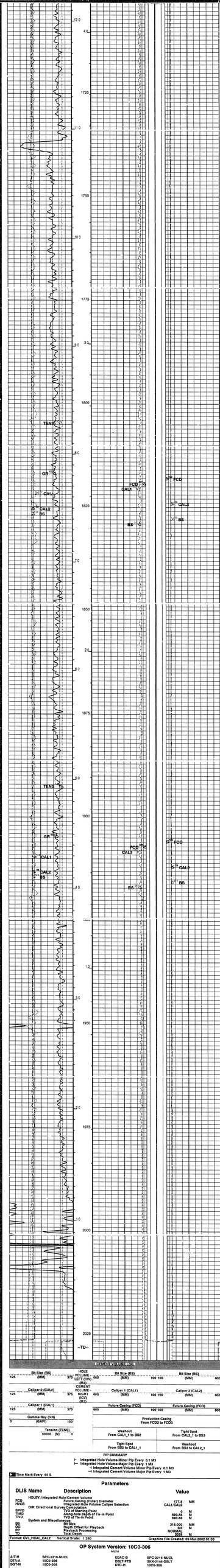
1600
1625
1650
8.4
1675
1700
TOP SET
CALLY
BOT SET
CALLY
TEST
GR
CALI



Parameters

DLIS Name	Description	Value
	HOLEV: Integrated Hole/Cement Volume	
FCD	Future Casing (Outer) Diameter	177.8 MM
SVCS	Cement/Hole Volume Caliper Selection	CAL1/CAL2
	DIR: Directional Survey Computations	
SPVD	TVD of Starting Point	0 M
TMD	Along-hole depth of Tie-in Point	880.88 M
TVD	TVD of Tie-in Point	880.68 M
	System and Miscellaneous	
BS	Bit Size	216.000 MM
DO	Depth Offset for Playback	0.0 M
PB	Playback Processing	NORMAL
TD	Total Depth	2025 M

Format: CVI_HCAL_CAL2 Vertical Scale: 1:240 Graphics File Created: 09-Mar-2002 01:30

OP System Version: 10C0-306

		NUCH		
AIT-H	SPC-2216-NUCL	EDAC-B	SPC-2216-NUCL	
DTA-A	10C0-306	DBLT-ITB	SKK-2146-DBLT	
SDTM	10C0-306	DTC-H	10C0-306	

Input DLIS Files

DEFAULT	SPLICE_AIT_SONIC_046	FN:1	PRODUCER	09-Mar-2002 01:27	2031.0 M	20.6 M

Output DLIS Files

DEFAULT	AIT_SONIC_048PUP	FN:50	PRODUCER	09-Mar-2002 01:30	
REDUCED	AIT_SONIC_048PUP	FN:51	PRODUCER	09-Mar-2002 01:30	

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Array Induction Tool - H Wellsite Calibration - Electronics Calibration Check - Thru Cal Mag. & Phase							
Master: 2-Jun-2002 10:13 Before: 9-Mar-2002 20:13							
Thru Cal Magnitude - 1	0	0.0195	0.0202	N/A	N/A	N/A	V
Thru Cal Magnitude - 2	0	0.0774	0.0777	N/A	N/A	N/A	V
Thru Cal Magnitude - 3	0	0.6309	0.6370	N/A	N/A	N/A	V
Thru Cal Magnitude - 4	0	0.7172	0.7247	N/A	N/A	N/A	V
Thru Cal Magnitude - 5	0	1.338	1.349	N/A	N/A	N/A	V
Thru Cal Magnitude - 6	0	1.939	1.960	N/A	N/A	N/A	V
Thru Cal Magnitude - 7	0	1.402	1.421	N/A	N/A	N/A	V
Thru Cal Phase - 1	0	50.29	51.35	N/A	N/A	N/A	DEG
Thru Cal Phase - 2	0	46.08	46.93	N/A	N/A	N/A	DEG
Thru Cal Phase - 3	0	40.41	40.81	N/A	N/A	N/A	DEG
Thru Cal Phase - 4	0	36.03	39.28	N/A	N/A	N/A	DEG
Thru Cal Phase - 5	0	36.10	37.35	N/A	N/A	N/A	DEG
Thru Cal Phase - 6	0	32.11	37.37	N/A	N/A	N/A	DEG
Thru Cal Phase - 7	0	32.11	33.69	N/A	N/A	N/A	DEG
Array Induction Tool - H Wellsite Calibration - Electronics Calibration Check - Auxiliary							
Master: 2-Jun-2002 12:58 Before: 9-Mar-2002 20:13							
Array Induction SPA Mstr	0	994.0	994.7	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	0.0491	-0.0692	N/A	N/A	N/A	MV
Array Induction Temperature Pt	0.9150	0.9209	0.9216	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	0.0004659	-0.0000417	N/A	N/A	N/A	V
Array Induction Tool - H Wellsite Calibration - Test Loop Gain Correction							
Master: 2-Jun-2002 12:58							
Test Loop Gain Magnitude - 0	0	1.014	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 1	0	1.049	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 2	0	1.018	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 3	0	0.9957	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 4	0	0.9957	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 5	0	1.000	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 6	0	1.012	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude - 7	0	1.009	N/A	N/A	N/A	N/A	V
Phase - 1	0	0.6702	N/A	N/A	N/A	N/A	DEG
Phase - 2	0	0.6702	N/A	N/A	N/A	N/A	DEG
Phase - 3	0	0.1358	N/A	N/A	N/A	N/A	DEG
Phase - 4	0	0.2458	N/A	N/A	N/A	N/A	DEG
Phase - 5	0	-0.001069	N/A	N/A	N/A	N/A	DEG
Phase - 6	0	0.1140	N/A	N/A	N/A	N/A	DEG
Phase - 7	0	0.1140	N/A	N/A	N/A	N/A	DEG
Array Induction Tool - H Wellsite Calibration - Sonde Error Correction							
Master: 2-Jun-2002 12:58							
R Sonde Error Correction - 0	0	-44.75	N/A	N/A	N/A	N/A	MMM
R Sonde Error Correction - 1	0	172.3	N/A	N/A	N/A	N/A	MMM
R Sonde Error Correction - 2	0	113.3	N/A	N/A	N/A	N/A	MMM
R Sonde Error Correction - 3	0	64.86	N/A	N/A	N/A	N/A	MMM
R Sonde Error Correction - 4	0	27.50	N/A	N/A	N/A	N/A	MMM
R Sonde Error Correction - 5	0	12.46	N/A	N/A	N/A	N/A	MMM
R Sonde Error Correction - 6	0	9.289	N/A	N/A	N/A	N/A	MMM
R Sonde Error Correction - 7	0	1.929	N/A	N/A	N/A	N/A	MMM
X Sonde Error Correction - 0	0	-37.52	N/A	N/A	N/A	N/A	MMM
X Sonde Error Correction - 1	0	114.5	N/A	N/A	N/A	N/A	MMM
X Sonde Error Correction - 2	0	69.89	N/A	N/A	N/A	N/A	MMM
X Sonde Error Correction - 3	0	44.55	N/A	N/A	N/A	N/A	MMM
X Sonde Error Correction - 4	0	22.90	N/A	N/A	N/A	N/A	MMM
X Sonde Error Correction - 5	0	7.220	N/A	N/A	N/A	N/A	MMM
X Sonde Error Correction - 6	0	4.330	N/A	N/A	N/A	N/A	MMM
X Sonde Error Correction - 7	0	1.570	N/A	N/A	N/A	N/A	MMM
Array Induction Tool - H Wellsite Calibration - Mud Gain Correction							
Master: 2-Jun-2002 12:58							
Cosine - Mag. Real, Imag. - V	0	V.9992	N/A	N/A	N/A	N/A	
Cosine - Mag. Real, Imag. - 1	0	0.9920	N/A	N/A	N/A	N/A	
Cosine - Mag. Real, Imag. - 2	0	0.9920	N/A	N/A	N/A	N/A	
Fine - Mag. Real, Imag. - 0	0	0.9992	N/A	N/A	N/A	N/A	
Fine - Mag. Real, Imag. - 1	0	0.9899	N/A	N/A	N/A	N/A	
Fine - Mag. Real, Imag. - 2	0	0.9899	N/A	N/A	N/A	N/A	
Eccentered Dual Axis Caliper Wellsite Calibration - Caliper 1 Calibration							
Before: 9-Mar-2002 13:52							
Caliper 1 Small Ring	203.2	N/A	87.93	N/A	N/A	N/A	MM
Caliper 1 Large Ring	304.8	N/A	132.2	N/A	N/A	N/A	MM
Eccentered Dual Axis Caliper Wellsite Calibration - Caliper 2 Calibration							
Before: 9-Mar-2002 13:52							
Caliper 2 Small Ring	203.2	N/A	32.34	N/A	N/A	N/A	MM
Caliper 2 Large Ring	304.8	N/A	54.00	N/A	N/A	N/A	MM
Scintillation Gamma-Ray - N Wellsite Calibration - Detector Calibration							
Before: 9-Mar-2002 20:13							
Gamma Ray Ltg - (Bkg)	170.4	N/A	170.4	N/A	N/A	15.49	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Array Induction Tool - H / Equipment Identification

Primary Equipment:
RH-SP Bottom Nose AH/SF - A
Array Induction Sonde AH/D - SA 145

Auxiliary Equipment:

Array Induction Tool - H Wellsite Calibration
Electronics Calibration Check - Thru Cal Mag. & Phase

Up	Value	Thru Cal Magnitude 1	Nominal	Value	Thru Cal Phase 1	DEG	Nominal
	Master 0.6196		0.6350	50.29			71.00
	Before 0.6202			51.35			
	Master 1.274		1.270	49.08			70.00
	Before 1.287			50.26			
	Master 0.6308		0.6230	43.24			69.00
	Before 0.6370			46.93			
	Master 0.7172		0.7040	44.40			68.00
	Before 0.7247			45.81			
	Master 1.338		1.337	36.03			59.00
	Before 1.349			39.28			
	Master 1.939		1.955	36.10			57.00
	Before 1.960			37.36			
	Master 1.402		1.415	32.11			53.00
	Before 1.420			33.69			
	80.00 % Nominal	100.00 % Nominal	140.0 % Maximum	Nom -40.00 Minimum	0 Nominal	Nom + 40.00 Maximum	

Master: 2-Jun-2002 12:58

Array Induction Tool - H Wellsite Calibration
Electronics Calibration Check - Auxiliary

Phase	Array Induction SPA Plus MV	Value	Phase	Array Induction SPA Zero MV	Value
Master		994.0	Master		-0.0491
Before		994.7	Before		-0.0692
	80.0 Minimum	994.0 Nominal	1060 Maximum	-50.00 Minimum	0 Nominal	50.00 Maximum
Phase	Array Induction Temperature Plus V	Value	Phase	Array Induction Temperature Zero V	Value
Master		0.9209	Master		4.656E-00
Before		0.9216	Before		-4.167E-00
	0.8700 Minimum	0.9150 Nominal	0.9600 Maximum	0.00000 Minimum	0 Nominal	0.05000 Maximum

Master: 2-Jun-2002 12:58 Before: 9-Mar-2002 20:13

Array Induction Tool - H Wellsite Calibration
Test Loop Gain Correction

Up	Value	Test Loop Gain Magnitude 7	Value	Phase DEG
0	1.014		0.5360	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum
1	1.049		0.6702	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum
2	1.018		0.1358	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum
3	1.022		0.2458	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum
4	0.9957		-0.001069	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum
5	1.000		-0.0747	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum
6	1.012		0.1140	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum
7	1.009		-0.1092	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum

Master: 2-Jun-2002 12:58

Array Induction Tool - H Wellsite Calibration
Sonde Error Correction

Up	Value	R Sonde Error Correction MM M	Value	X Sonde Error Correction MM M
0	-44.75		-37.52	
	-67.50 Minimum	-45.00 Nominal	-22.50 Maximum	-60.00 Minimum	-40.00 Nominal	-20.00 Maximum
1	172.3		-30.37	
	114.0 Minimum	152.0 Nominal	204.0 Maximum	-608.0 Minimum	-456.0 Nominal	-625.0 Maximum
2	113.3		29.93	
	66.00 Minimum	111.0 Nominal	156.0 Maximum	-264.0 Minimum	-198.0 Nominal	-360.0 Maximum
3	64.86		-64.65	
	36.00 Minimum	84.00 Nominal	99.00 Maximum	-204.0 Minimum	-153.0 Nominal	-250.0 Maximum
4	27.50		22.50	
	15.00 Minimum	28.00 Nominal	39.00 Maximum	-63.00 Minimum	-45.00 Nominal	-63.00 Maximum
5	12.46		8.220	
	6.000 Minimum	14.00 Nominal	24.00 Maximum	-30.00 Minimum	0 Nominal	30.00 Maximum
6	9.289		4.360	
	6.000 Minimum	10.00 Nominal	15.00 Maximum	-30.00 Minimum	0 Nominal	30.00 Maximum
7	1.929		1.570	
	0.000 Minimum	5.000 Nominal	10.00 Maximum	-30.00 Minimum	0 Nominal	30.00 Maximum

Master: 2-Jun-2002 12:58

Array Induction Tool - H Master Calibration
Mud Gain Correction

Up	Value	Cosine - Mag. Real, Imag.	Value	Fine - Mag. Real, Imag.
0	0.9992		0.9992	
	0.9000 Minimum	1.000 Nominal	1.200 Maximum	0.8000 Minimum	1.000 Nominal	1.200 Maximum
1	0.9920		0.9899	
	0.9000 Minimum	1.000 Nominal	1.200 Maximum	0.8000 Minimum	1.000 Nominal	1.200 Maximum
2	0.9920		0.9899	
	0.9000 Minimum	1.000 Nominal	1.200 Maximum	0.8000 Minimum	1.000 Nominal	1.200 Maximum

Master: 2-Jun-2002 12:58

Array Induction Tool - H Master Calibration
Electronics Calibration Check - Thru Cal Mag. & Phase

Up	Value	Thru Cal Magnitude 1	Nominal	Value	Thru Cal Phase 1	DEG	Nominal
	Master 1.274		1.270	49.08			70.00
	Before 1.287			50.26			
	Master 0.6308		0.6230	43.24			69.00
	Before 0.6370			46.93			
	Master 0.7172		0.7040	44.40			68.00
	Master 1.338		1.337	36.03			59.00
	Master 1.939		1.955	36.10			57.00
	Master 1.939		1.955	36.10			57.00
	Master 1.402		1.415	32.11			53.00
	80.00 % Nominal	100.00 % Nominal	140.0 % Maximum	Nom -40.00 Minimum	0 Nominal	Nom + 40.00 Maximum	

Master: 2-Jun-2002 12:58

Array Induction Tool - H Master Calibration
Electronics Calibration Check - Auxiliary

Phase	Array Induction SPA Plus MV	Value	Phase	Array Induction SPA Zero MV	Value
Master		994.0	Master		-0.0491
	80.0 Minimum	994.0 Nominal	1060 Maximum	-50.00 Minimum	0 Nominal	50.00 Maximum
Phase	Array Induction Temperature Plus V	Value	Phase	Array Induction Temperature Zero V	Value
Master		0.9209	Master		4.656E-00
	0.8700 Minimum	0.9150 Nominal	0.9600 Maximum	0.00000 Minimum	0 Nominal	0.05000 Maximum

Master: 2-Jun-2002 12:58

Array Induction Tool - H Master Calibration
Test Loop Gain Correction

Up	Value	Test Loop Gain Magnitude 7	Value	Phase DEG
0	1.014		0.5360	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum
1	1.049		0.6702	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum
2	1.018		0.1358	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum
3	1.022		0.2458	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum
4	0.9957		-0.001069	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum
5	1.000		-0.0747	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum
6	1.012		0.1140	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum
7	1.009		-0.1092	
	0.9500 Minimum	1.000 Nominal	1.050 Maximum	-3.000 Minimum	0 Nominal	3.000 Maximum

Master: 2-Jun-2002 12:58

Array Induction Tool - H Master Calibration
Sonde Error Correction

Up	Value	R Sonde Error Correction MM M	Value	X Sonde Error Correction MM M
0	-44.75		-37.52	
	-67.50 Minimum	-45.00 Nominal	-22.50 Maximum	-60.00 Minimum	-40.00 Nominal	-20.00 Maximum
1	172.3		-30.37	
	114.0 Minimum	152.0 Nominal	204.0 Maximum	-608.0 Minimum	-456.0 Nominal	-625.0 Maximum
2	113.3		29.93	
	66.00 Minimum	111.0 Nominal	156.0 Maximum	-264.0 Minimum	-198.0 Nominal	-360.0 Maximum
3	64.86		-64.65	
	36.00 Minimum	84.00 Nominal	99.00 Maximum	-204.0 Minimum	-153.0 Nominal	-250.0 Maximum
4	27.50		22.50	
	15.00 Minimum	28.00 Nominal	39.00 Maximum	-63.00 Minimum	-45.00 Nominal	-63.00 Maximum
5	12.46		8.220	
	6.000 Minimum	14.00 Nominal	24.00 Maximum	-30.00 Minimum	0 Nominal	30.00 Maximum
6	9.289		4.360	
	6.000 Minimum	10.00 Nominal	15.00 Maximum	-30.00 Minimum	0 Nominal	30.00 Maximum
7	1.929		1.570	
	0.000 Minimum	5.000 Nominal	10.00 Maximum	-30.00 Minimum	0 Nominal	30.00 Maximum

Master: 2-Jun-2002 12:58

Array Induction Tool - H Master Calibration
Mud Gain Correction

Up	Value	Cosine - Mag. Real, Imag.	Value	Fine - Mag. Real, Imag.
0	0.9992		0.9992	
	0.9000 Minimum	1.000 Nominal	1.200 Maximum	0.8000 Minimum	1.000 Nominal	1.200 Maximum
1	0.9920		0.9899	
	0.9000 Minimum	1.000 Nominal	1.200 Maximum	0.8000 Minimum	1.000 Nominal	1.200 Maximum
2	0.9920		0.9899	
	0.9000 Minimum	1.000 Nominal	1.200 Maximum	0.8000 Minimum	1.000 Nominal	1.200 Maximum

Master: 2-Jun-2002 12:58

Eccentered Dual Axis Caliper / Equipment Identification

Primary Equipment:
Eccentered Dual Axis Sonde - SA EDAS - SA 30
Eccentered Dual Axis Electronics (cart) EDAE - A 13

Auxiliary Equipment:
Electronics Cartridge Housing ECH - XC 1377

Scintillation Gamma-Ray - N / Equipment Identification

Primary Equipment:
Scintillation Gamma Cartridge SGC - TB
Scintillation Gamma Detector SGD - TAA

Auxiliary Equipment:
Scintillation Gamma Housing SGH - K
Gamma Source Radioactive GSR - LCV

Scintillation Gamma-Ray - N Wellsite Calibration
Detector Calibration

Phase	Gamma Ray Background (GAP)	Value	Phase	Gamma Ray Ltg - (Bkg) (GAP)	Value	Phase	Gamma Ray (Calibrated) (GAP)	Value
Before		33.43	Before	170.4	N/A	Before	165.0	165.0
	20.00 Minimum	120.0 Nominal	180.0 Maximum	170.4 Minimum	180.0 Nominal	165.0 Minimum	180.0 Nominal	165.0 Maximum

Before: 9-Mar-2002 20:11

Company: ANADARKO CANADA ENERGY

Well: ANADARKO NETLA A-68

Field: NETLA

Province: NORTHWEST TERRITORIES

Measured Depth

CEMENT VOLUME LOG

Schlumberger

ECL

Scale 1:240 (5"=100') Metric

Well Name:	Anadarko Nella A-68
Location:	Latitude 60 47' 07": Longitude 122 41' 35"
Licence Number:	1936
Spud Date:	24th Feb. 2002
Surface Coordinates:	Lat 60 47' 07"
	Long 122 41' 35"
Bottom Hole Coordinates:	190m S and 162m E of surface location.
Ground Elevation (m):	649.2m
Logged Interval (m):	202m To: surface Total Depth (m): 2076m
Formation:	Slave Point Formation
Type of Drilling Fluid:	Invert to Lo-log. Water based polymer to TD

Region: Netla, NWT
Drilling Completed: 10th March, 2002

K.B. Elevation (m): 654.1m

Printed by Wellsight Log Viewer from Wellsight Systems Inc. 1-800-447-1534 www.wellsight.com

OPERATOR

Company: Anadarko Canada Corporation
Address: 425-1st Street S.W.
Calgary, AB T2P 4V4
CANADA

GEOLOGIST

Name: Benjamin Litwin, M.Sc.
Company: ECL Canada
Address: #200, 1009-7th Ave. S.W.
Calgary, AB, T2P 1A8
CANADA

Comments

Extreme lost circulation problems were encountered out of intermediate casing, within the Slave Point porosity, which prevented drilling being complete to the originally proposed depth of 2400m.

ROCK TYPES

Anhy, Bent, Brec, Cht, Clyst, Coal, Congl, Dol, Gyp, Igne, Lmst, Meta, Mrlst, Salt, Shale, Shcol, Shgy, Sltst, Ss, Till, Blank, dilst, metalime

ACCESSORIES

MINERAL: Anhy, Argqrn, Arg, Bent, Bit, Brecfrag, Calc, Carb, Chlrtk, Chrt, Dol, Feldspar, Ferrpel, Ferr, Glau, Gyp, Hvymin, Kaol, Marl, Mrlst, Nodule, Phos, Pyr, Salt, Sandy, Silt, Sil, Sulphur, Tuff

FOSSIL: Algae, Amph, Belm, Bioclst, Brach, Bryozoa, Cephal, Crnoid, Echin, Fish, Foram, Fossil, Gastro, Oolite, Ostra, Pelec, Pellet, Pisolite, Plant, Strom

STRINGER: Anhy, Arg, Bent, Coal, Dol, Gyp, Ls, Mrst, Sltstrg, Sndstrg

TEXTURE: Boundst, Chalky, Crystln, Earthy, Finextln, Grainst, Lithogr, Microvln, Mudst, Packst, Wackest

OTHER SYMBOLS

POROSITY TYPE: Earthy, Fenest, Fracture, Inter, Moldic, Organic, Pinpoint, Vuggy

SORTING: Well, Moderate, Poor

ROUNDING: Rounded, Subrnd, Subang, Angular

OIL SHOWS: Even, Spotted, Stain, Ques, Dead

INTERVALS: None, Core, Dst, EVENTS: RR, Sidewall, casing

Curve Track 1

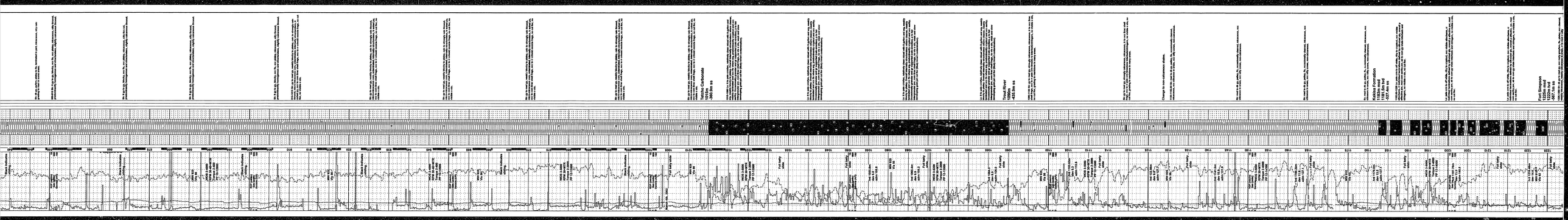
PDP (neutron)
Gas (units)
Gamma (API)

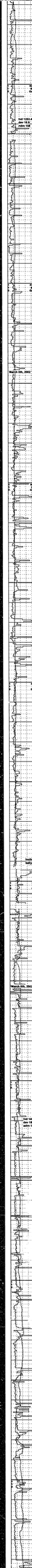
Porosity | Lithology | Grain Size | Shale Volume | Gas Units | Oil Shows | Geological Descriptions

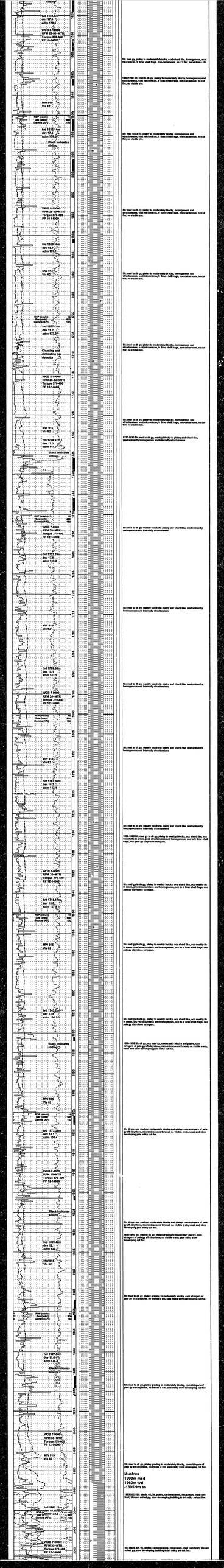
PDP (neutron) 60 to -10
Gas (units) 0 to 100
Gamma (API) 0 to 150

Surface casing set at 660m.

660-670 Sltst: gy to med gy, fn to occ pbble, micaceous, clay rich, com chalky areas, rr subrnd gy lsmtc, fn to rr fg nodul glau grn, com fg to mg pyritic fossil fragments, com fg to mg pyritic fossil fragments, com fg to mg pyritic fossil fragments


Tetcho Carbonate
1510m
-360.8m ss
Trout River
1650m
-453.8m ss
Kiskisa Formation
1183.5m ted
1187.5m bed
-1027.1m ss
Fort Simpson
1220m mid
1225m bed
-987.1m ss


Full belly slides
WOB 3-6000
RPM 30+MTR
Torque 2-4000
PP 12-14000
ROP (mech)
Bar (mtr)
Gamma (API)
MW 915
Vis 62
Rotate
Full belly slides
WOB 3-6000
RPM 30+MTR
Torque 2-4000
PP 12-14000
Rotate
Full belly slides
WOB 3-6000
RPM 30+MTR
Torque 2-4000
PP 12-14000
March 5th, 2002
Rotate
Full belly slides
WOB 3-6000
RPM 30+MTR
Torque 2-4000
PP 12-14000


WOB 8-10000
RPM 28-36*RTR
Torque 370-420*
PP 10-14000*
WOB 8-10000
RPM 28-36*RTR
Torque 370-420*
PP 10-14000*
WOB 8-10000
RPM 28-36*RTR
Torque 370-420*
PP 10-14000*
WOB 7-9000
RPM 28*RTR
Torque 370-400
PP 12-14000
WOB 7-9000
RPM 28*RTR
Torque 370-400
PP 12-14000
WOB 7-9000
RPM 28*RTR
Torque 370-400
PP 12-14000
WOB 7-9000
RPM 28*RTR
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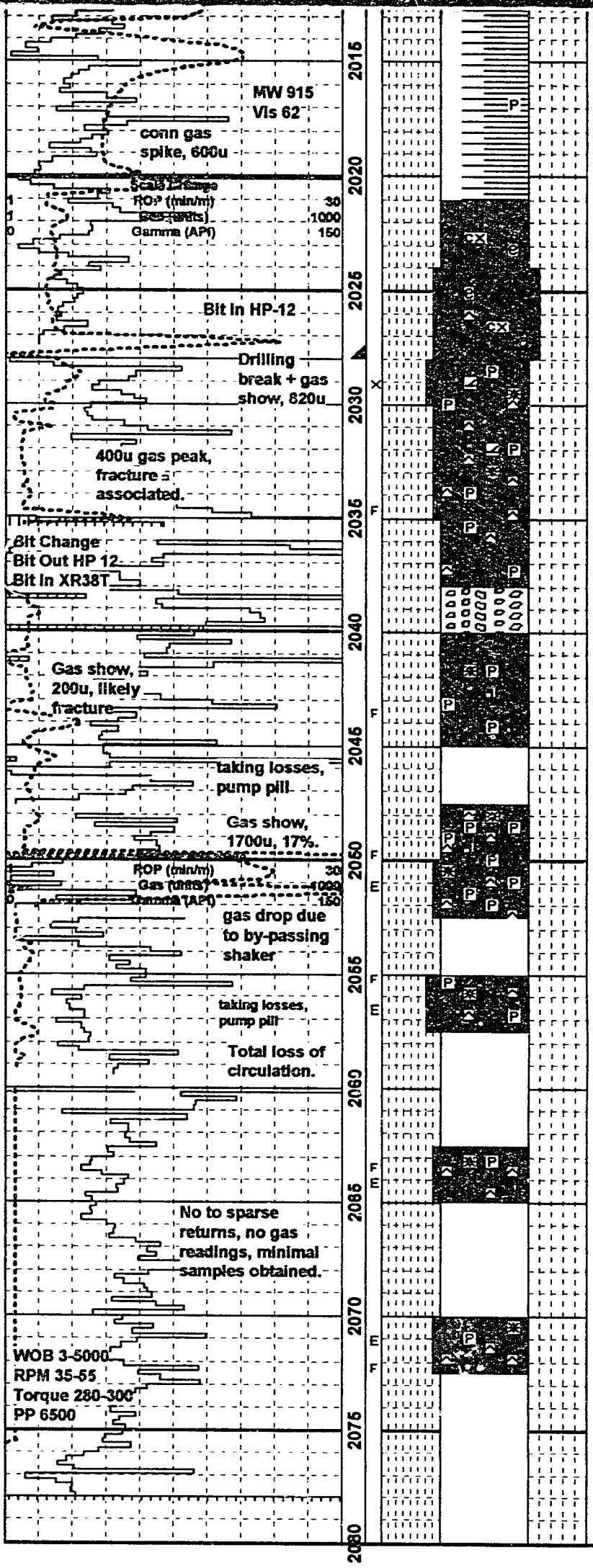
PP 12-14000
WOB 7-9000
RPM 28*RTR
Torque 370-400
PP 12-14000
WOB 7-9000
RPM 28*RTR
Torque 370-400
PP 12-14000
MW 910
Vis 62
MW 910
Vis 62
MW 910
Vis 62



Slave Point Formation
2021m
1986.4m tvd
-1332.3m ss

2021-2025 Ls: gy to lt gy, blocky and platey, cryptoxl, dns.

2025-2028 Ls: crm to off wh, cryptoxl and rthy, poss remnant allochems with rthy matrix, pred p effective por, mod com rthy por, no visible o stn, wk and slow dev pale milky cut flor.

2028-2038 LS: lt gy, cryptoxl, platey, arg, dns, tt. Mixed with crm, wh, microxl and cryptoxl, microxl cps are pred dns, rr cps w/ exc intxl por, com to ab smokey qtz as indiv elongate euhed xtals or dns xtal clusters as poss void vills, rr rthy cps w/ clr qtz xtals, rr euhed isolated dol xtals, scat dissem euhed py on rr microxl cps, vuggy thruout with clr calcite void fill, no visible o stn, no cut flor. Becomes very qtz rich towards 2035m. Highly hydrothermallaltered.

High torque at 2035, likely fracture.

2038-2040 CHERT: blk, amor, occ vis internal xtal textures, com clr euhed qtz xtals with blk bit matrix.

2040-2045 LS: lt brn and brn/gy, platey, cryptoxl, slightly arg, mixed with wh to pale chalky ls, com to ab v f xl euhed and elongate qtz xtals, com py thruout, mod com Brac shell frags, no visible o stn, no cut flor.

High torque at 2044, likely fracture.

2045-2047.50 No sample, high losses, no returns.

2047.50-2050 META: qtz, sulphide, highly altered, ab py and chalcopyrite, some qtz appears to be qtzite with sulphide matrix.

2050-2052.50 LS: qtz rich and sulphide rich highly altered samples as before with occ lt brn to brn/gy cryptoxl ls, no visible os tn, no cut flor.

2052.50-2055 No sample due to losses.

2055-2057.50 LS: off wh to crm and pale crm, cryptoxl and rhty, scat py, only rthy por, no to p effective por, com highly altered cps as before, com frac evidence in drilling parameters, com py.

2057.50-2060 No sample due to losses.

2062.50-2065 Ls: pale crm to tan, translucent in areas, blocky, crpxl, dns, fossiliferous, Brac shell frags, com clr and dk qtz and cherts as before, com py and poss chalcopyrite.

2070-2072.50 Ls: pale crm to tan, translucent in areas, blocky, crpxl, dns, fossiliferous, Brac shell frags, com clr and dk qtz and cherts as before, com appearance as "shattered glass", poss much larger xtals being broken, com py and poss chalcopyrite.

TD @ 2078m at 1100hrs on the 15th of March, 2002.

LEGIBILITY
OF LOG
COULD VARY
DUE TO
COLOR
CONTENT

TOUR SHEETS

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR. : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	TONY IRWIN

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
DR	TL
TS	TL
DR	TL
DS	
JR	

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A. O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

YEAR 2002 | MONTH 3 | DAY 16
RIG NO.: 55
FUEL @ 08:00 HRS.
RIG 128 | BOILER
WEATHER: TEMPERATURE -19 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC: rig in wire line

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X H	18			

SHALE SHAKER(S)

NO.	TYPE	TYPE
	DFTS	
CHANGE SCREENS	YES	NO
TOP 115	TOP 120	
MIDDLE 115	MIDDLE 120	
BOTTOM 80	BOTTOM 115	

RENTALS / SERVICES	Morn	Day	Eve
CAMP			
LOADER			
CREW VEHICLE			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						1.50	0.25				3.50				0.50								6.25				12.00
DAY						9.75	0.25				1.50										0.50						12.00
EVE																											
TOTAL						11.25	0.50				5.00				0.50						0.50		6.25				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
1	BIT SUB		1.06 m
26	H W D P		238.29 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
95	DRILLPIPE	STANDS	1827.52 m
	DRILLPIPE	SINGLES	m
KELLY DOWN			10.93 m
TOTAL			2078.00 m
WT. OF D.C.			15 1000 dan
WT. OF STRING			43 1000 dan

BIT RECORD

BIT NO	
SIZE (mm)	156.0
IADC CODE	5 3 7
MFG	SMITH
Type	XR 38T
SERIAL NO	NK4 286
JETS (mm)	15.1 15.1 15.1
DEPTH IN (m)	2035.00
DEPTH OUT (m)	2078.00
TOTAL METER	43.00
TOTAL HOURS	10.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG dan 8/10 up 3
TORQUE 350
FILL m

DRILLERS SIGNATURE: DARRELL LAPLANTE

MUD RECORD

WATER BASED X OIL BASED

TIME	200
DENSITY kg/m3	1010
FUNNEL VIS s/l	28
W.L cm³	
FILCK	
PH	

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa) 2150

PUMP NO. 1 LINER(mm)	SPM	PUMP NO. 2 LINER(mm)	SPM
152.0		152.0	

REDUCED PUMP SPEED @ 58 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	9.5	380

MACP 3661
MAX HOOKLOAD 53

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	130	1.50	6	HOIST DRILL STRING FROM 725 TO 0 M. 112.5 m3 pumped in well
130	145	0.25	7	RIG SERVICE / FUNTION BLIND RAMS
145	800	6.25	23	RIG IN LUB .HEAD/ PRESSURE TEST /RUN GAUGE RING 4000/10 MIN.
800	1030	2.50	11	WIRE LINE LOGS RUN AND SET PACKER 2012 METER
1030	1100	0.50	15	PRESSURE TEST LUB. HEAD TO17000 KPA 10 MIN.
1100	1200	1.00	11	WIRE LINE LOGS , BOND LOG
1200				

Notes: CROWN SAVER CHECKED BRAKE LINKAGE CHECKED DEAD LINE ANCHOR CHECKED
BOILER BLOWN 3@15 SEC. TOTAL FLUID PUMPED INTO WELL WHILE TRIPPING
M.J. 2871 TOTAL MJ. 143926 LL 1330 M. TOTAL FLUID PUMPED WHILE WIR
330 m3 — H2O

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR. : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	TONY IRWIN

	Opr.	R.M.
(1) Daily Walk Around Inspection	TA	TI
(2) Detailed Inspection-Weekly (Using Check List)	JA	
(3) H2S Signs Posted(If Required)	JA	TI
(4) Well License & Stick Diagram Posted	JA	TI
(5) Flare Lines Staked	JA	
(6) BOP Drills Performed	JA	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JA	
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 16

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 128 | BOILER

WEATHER: TEMPERATURE -19 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC: LAYOUT DRILL PIPE

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X.H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP	115	120
MIDDLE	115	120
BOTTOM	80	115

RENTALS / SERVICES

	Morn	Day	Eve
CAMP			
LOADER			
CREW VEHICLE			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						1.50	0.25				3.50				0.50								6.25				12.00
DAY						9.75	0.25				1.50										0.50						12.00
EVE																											
TOTAL						11.25	0.50				5.00				0.50						0.50		6.25				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0 20
1	BIT SUB		1 06
26	H W D P		238 29

EXTRA DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68						
OPERATOR. : ANADARKO CANADA ENERGY		CONTRACTOR : AKITA DRILLING LTD.					
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :					
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)					
JIM ELLIOTT		TONY IRWIN					

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flowlines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A. O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

Opr.	R.M.

YEAR 2002 | MONTH 3 | DAY 16

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO. | TYPE | TYPE

CHANGE SCREENS YES NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	R/DUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN																											
DAY																											
EVE																											
TOTAL																											

DRILLING ASSEMBLY (AT END OF TOUR)

NO. | BIT / MILLS | O.D.mm

DRILLPIPE | STANDS

DRILLPIPE | SINGLES

KELLY DOWN

TOTAL

WT. OF D.C.

WT. OF STRING

DRILLERS SIGNATURE

BIT RECORD

BIT NO.											
SIZE (mm)											
IADC CODE											
MFG.											
Type											
SERIAL NO.											
JETS (mm)											
DEPTH IN (m)											
DEPTH OUT (m)											
TOTAL METER											
TOTAL HOURS											
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.		

1000 daN DRAG daN

1000 daN TORQUE

1000 daN FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME

DENSITY kg/m3

FUNNEL VIS s/l

W.L. cm/ FILCK

PH

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa) | PUMP NO. 1 LINER(mm) | PUMP NO. 1 SPM | PUMP NO. 2 LINER(mm) | PUMP NO. 2 SPM

REDUCED PUMP SPEED @ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS | INTAKE | OVERFLOW | UNDERFLOW

CENTRIFUGE

HOURS | INTAKE | OVERFLOW | UNDERFLOW

HOURS | INTAKE | OVERFLOW | UNDERFLOW

BOILER

HRS. RUN | PH | STACK deg

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE

TIME DETAIL

AKITA 55 RIG CHARGE TO AFE # 0144001 0001 MARCH 17/02

Notes:

DRILLING CREW PAYROLL DATA

WELL NAME & NO		YEAR	MONTH	DAY
ANADARKO NETLA A-68		2002	3	16
OPERATOR	CONTRACTOR			
ANADARKO CANADA ENERGY	AKITA DRILLING LTD.			
RIG MANAGER		RIG NO		
TONY IRWIN		55		
PROVINCE	CAMP X YES NO	RIG SAFETY DAYS		
N.W.T.		2157		

EVENING TOUR	FROM 0	TO 1200		INJURIES	
CREW	SOC. INS. NO.	NAME	HOURS	YES	NO
DRILLER		DARRELL LAPLANTE	12.00		DL
DERRICK HAND		CLINTON GALLIFORD	12.00		CG
MOTOR HAND		JOHN WIPF	12.00		JW
FLOOR HAND		WYATT Boucher	12.00		WB
FLOOR HAND		JONAHTON CARLICK	12.00		JC
LEASE HAND		TOM STEWART	12.00		TS

RATE SCHEDULE	X REGULAR	REPAIR	INVERT
	CREW SAFETY DAYS		
	26		

DAY TOUR	FROM 1200	TO 2400		INJURIES	
CREW	SOC. INS. NO.	NAME	HOURS	YES	NO
DRILLER		KEVIN BERGSON	12.00		KB
wellsite cor		Graeme McWha	12.00		GM
DERRICK HAND		MIKE BARANIUK	12.00		MB
MOTOR HAND		ANDY ALBERT	12.00		AA
FLOOR HAND		JIM NEMETH	12.00		JN
FLOOR HAND		PETER MANWART	12.00		PM
LEASE HAND		DARREN HAZENBERG	12.00		DH

RATE SCHEDULE	X REGULAR	REPAIR	INVERT
	CREW SAFETY DAYS		

EVENING SHIFT

LICENCE NO. :	
WELL NAME AND NO. :	ANADARKO NETLA A-68
OPERATOR. :	ANADARKO CANADA ENERGY
CONTRACTOR:	AKITA DRILLING LTD.
SURFACE LOCATION. :	60:47:07.40 N 122:41:38.90 E
UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	JIM ELLIOTT
CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	TONY IRWIN

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Slick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Preformed	JE	TI
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 15

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 184 | BOILER 53

WEATHER: TEMPERATURE -18 | CONDITIONS SNOWING | WIND DIRECTION NORTH | ROAD CONDITION ICE

SAFETY TOPIC LOADER OPERATION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP	115	TOP	120
MIDDLE	115	MIDDLE	120
BOTTOM	80	BOTTOM	115

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5 X H	18			

RENTALS / SERVICES

	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		4.00	3.25		4.25		0.50																				12.00
DAY					8.50	3.25	0.25																				12.00
EVE																											
TOTAL		4.00	3.25		12.75	3.25	0.75																				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
1	BIT SUB		1.06 m
26	H W D P		238.29 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
95	DRILLPIPE	STANDS	1827.52 m
	DRILLPIPE	SINGLES	m
	KELLY DOWN	10.93	m
	TOTAL	2078.00	m
	WT. OF D.C.	15	1000 dan
	WT. OF STRING	43	1000 dan

BIT RECORD

BIT NO.	
SIZE (mm)	156.0
IADC CODE	5 3 7
MFG.	SMITH
Type	XR 38T
SERIAL NO.	NK4 286
JETS (mm)	15 15 15 15
DEPTH IN (m)	2035.00
DEPTH OUT (m)	2078.00
TOTAL METER	43.00
TOTAL HOURS	10.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE/mm	OTHER	REASON	R.O.P.
								4.30

DRAG dan 4 DOWN 10/

TORQUE 400

FILL m

DRILLERS SIGNATURE DARRELL LAPLANTE

MUD RECORD

WATER BASED | OIL BASED

TIME	
DENSITY kg/m3	
FUNNEL VIS s/l	
W.L. cm/ FILCK	
PH	

MUD MATERIALS USED

TYPE	QTY	UNITS
BIO-LOSE	4	SX
STAFLO	4	SX
CAL CARB Q	40	SX
CAL CARB 325	40	SX
SOLUFLAKE-FINE	10	SX
POULTRY GRIT	30	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2060.00	2078.00	D	60	6

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
3450	152.0	64	152.0	

REDUCED PUMP SPEED

2130 @ 58 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	365

MACP 3661

MAX HOOKLOAD 56

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	115	1.25	5	MONITOR WELL lost RETURNS AT 2052M.
115	130	0.25	5	PUMP PILL #19 2.5m3 and case with 700 strks
130	215	0.75	5	COND MUD AND BUILD VOLUME
215	530	3.25	3	SLOWLY WASH TO BOTTOM 2060 M. MONITORING RETURNS
530	545	0.25	7	RIG SERVICE FUNTION ANNULAR
545	615	0.50	2	FLOW CHECK AND DRILL FROM 2060 TO 2061M.
615	730	1.25	5	MONITOR WELL AND MIX PILL #20
730	1100	3.50	2	DRILL FROM 2061 TO 2078m
1100	1145	0.75	5	COND MUD ,pump pill, mix pill
1145	1200	0.25	7	RIG SERVICE function remote choke

Notes: CROWN SAVER CHECKED BRAKELINKAGE CHECKED

MJ. 1988 MJ TOTAL 143043 LL 1330

DAY SHIFT

LICENCE NO. :

WELL NAME AND NO. : ANADARKO NETLA A-68

OPERATOR : ANADARKO CANADA ENERGY

CONTRACTOR : AKITA DRILLING LTD.

SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E

UNIQUE I.D. :

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

JIM ELLIOTT

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

TONY IRWIN

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Preformed	JE	TI
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 15

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 184 | BOILER 53

WEATHER: TEMPERATURE -18 | CONDITIONS SNOWING | WIND DIRECTION NORTH | ROAD CONDITION ICE

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

	TOP	MIDDLE	BOTTOM
	115	115	80
	120	120	115

RENTALS / SERVICES

	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIRRIG	CUT OFF DRLG LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		4.00	3.25		4.25		0.50																				12.00
DAY					8.50	3.25	0.25																				12.00
EVE																											
TOTAL		4.00	3.25		12.75	3.25	0.75																				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
1	BIT SUB		1.06 m
26	H W D P		238.29 m
95	DRILLPIPE	STANDS	1827.52 m
	DRILLPIPE	SINGLES	m
	KELLY DOWN	10.93	m
	TOTAL	2078.00	m
	WT. OF D.C.	15	1000 daN
	WT. OF STRING	43	1000 daN

DRILLERS SIGNATURE KEVIN BERGSON

BIT RECORD

BIT NO.	
SIZE (mm)	156.0
IADC CODE	5 3 7
MFG.	SMITH
Type	XR 38T
SERIAL NO.	NK4 286
JETS (mm)	15 15 15
DEPTH IN (m)	2035.00
DEPTH OUT (m)	2078.00
TOTAL METER	43.00
TOTAL HOURS	10.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.
6	3	FC	A	2	0.00	BT	TD	

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME

DENSITY kg/m3

FUNNEL VIS s/l

W.L. cm/ FILCK

PH

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

2100 @ 60 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	375

MACP 3661

MAX HOOKLOAD 53

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1515	3.25	5	MIX PILL, PUMP PILL,CLEAN TANKS
1515	1530	0.25	6	TRIPS PULL BACK INTO CASING 3 STDS
1530	1915	3.75	5	CLEAN TANKS, circ kelly, fill through kill line,work pipe 2000-2007
1915	1930	0.25	7	RIG SERVICE function upper pipe rams 5 secs
1930	2100	1.50	5	CLEAN TANKS circ. kelly fill through kill line
2100	2400	3.00	6	HOIST DRILL STRING FROM 2003 M. TO 725 M

Notes: CHECK CROWN SAVER AND BRAKES

cleaned and prepared boiler #1 for shut down

DRILLING CREW PAYROLL DATA

W NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	3	15

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD.

RIG MANAGER	RIG NO
TONY IRWIN	55

PROVINCE	CAMP	X	YES	NO	RIG SAFETY DAYS
N.W.T					2156

EVENING TOUR	FROM	0	TO	1200		INJURIES	
CREW	SOC. INS. NO.	NAME		HOURS		YES	NO
DRILLER		DARRELL LAPLANTE		12.00			DL
DERRICK HAND		CLINTON GALLIFORD		12.00			CG
MOTOR HAND		JOHN WIPF		12.00			JW
FLOOR HAND		WYATT Boucher		12.00			WB
FLOOR HAND		JONAHTON CARLICK		12.00			JC
LEASE HAND		TOM STEWART		12.00			TS

RATE SCHEDULE	X	REGULAR	REPAIR		INVERT
		CREW SAFETY DAYS			
		25			

DAY TOUR	FROM	1200	TO	2400		INJURIES	
CREW	SOC. INS. NO.	NAME		HOURS		YES	NO
DRILLER		KEVIN BERGSON		12.00			KB
wellsite cor		Graeme McWha		12.00			GM
DERRICK HAND		MIKE BARANIUK		12.00			MB
MOTOR HAND		ANDY ALBERT		12.00			AA
FLOOR HAND		JIM NEMETH		12.00			JN
FLOOR HAND		PETER MANWART		12.00			PM
LEASE HAND		DARREN HAZENBERG		12.00			DH

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT
		CREW SAFETY DAYS		

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR. : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	TONY IRWIN

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)	JE	
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Preformed	JE	TI
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 14

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 95 | BOILER 63

WEATHER: TEMPERATURE -27 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5 X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
115	120
MIDDLE 115	MIDDLE 120
BOTTOM 80	BOTTOM 115

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					11.75		0.25																			12.00	
DAY					12.00																					12.00	
EVE																											
TOTAL					23.75		0.25																			24.00	

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
1	BIT SUB		1.06 m
26	H W D P		238.29 m
94	DRILLPIPE	STANDS	1808.34 m
	DRILLPIPE	SINGLES	m
	KELLY DOWN	12.21	m
	TOTAL	2060.10	m
	WT. OF D.C.	15	1000 daN
	WT. OF STRING	43	1000 daN

DRILLERS SIGNATURE DAVE RYAN

BIT RECORD

BIT NO.	
SIZE (mm)	156.0
IADC CODE	5 3 7
MFG.	SMITH
Type	XR 38T
SERIAL NO	NK4 286
JETS (mm)	15 15 15 15
DEPTH IN (m)	2035.00
DEPTH OUT (m)	
TOTAL METER	25.00
TOTAL HOURS	6.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P
								4 16

DRAG daN 14 UP

TORQUE

FILL m

MUD RECORD

WATER BASED | X | OIL BASED

TIME	
DENSITY kg/m3	
FUNNEL VIS s/l	
W.L. cm/ FILCK	
PH	

MUD MATERIALS USED

TYPE	QTY	UNITS
BIO-LOSE	1	SX
CAL CARB Q	20	SX
CAL CARB 325	20	SX
SOLUFLAKE-FINE	20	SX
SUPER-CAL	20	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)

PUMP NO. 1		PUMP NO. 2	
LINER(mm)	SPM	LINER(mm)	SPM
152.0		152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	370

MACP 5448

MAX HOOKLOAD 52

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	645	6.75	5	MONITOR WELL
645	700	0.25	5	PUMP 8 m3 PILL
700	845	1.75	5	monitor well
845	900	0.25	5	PUMP PILL #14 .12.2m RETURNS 3568 STRKS/4.4 M3
900	1000	1.00	5	MONITOR WELL
1000	1015	0.25	5	PUMP PILL # 15 . 13.25 m3 RETURNS AT 335STRKS /4.2 m3
1015	1100	0.75	5	monitor well
1100	1115	0.25	5	pump pill #16 . 12.5m3 RETURN S AT 240 STRKS / 3 M3
1115	1130	0.25	7	RIG SERVICE
1130	1145	0.25	5	MONITOR WELL
1145	1200	0.25	5	PUMP PILL # 17 . 13.2 M3 RETURNS AT 580 STRKS/ 7.2 m3
1200				TOP FILL VOLUME 00-630 HRS-26 m3
				total volume pumped from 6.30 to 12.00 62. M3

Notes: FUNCTIONED CROWN SAVER AND VISUALLY INSPECTED BRAKES

FUNCTIONED ANNULAR PREVENTER,HCR,REMOTE CHOKE

MJ-1905 , TMJ-142960 LL-1330 , KOOM EY-30 CM'S

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR : ANADARKO CANADA ENERGY		CONTRACTOR : AKITA DRILLING LTD.	
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		TONY IRWIN	

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

	Opr.	R.M.
1	JE	TI
2	JE	
3	JE	TI
4	JE	TI
5	JE	TI
6	JE	TI
7	JE	TI

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

TI

YEAR 2002 | MONTH 3 | DAY 14

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 95 | BOILER 63

WEATHER: TEMPERATURE -27 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC: H2S

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X.H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | ON

TOP	MIDDLE	BOTTOM
115	115	80
120	120	115

RENTALS / SERVICES

	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					11.75		0.25																				12.00
DAY					12.00																						12.00
EVE																											
TOTAL					23.75		0.25																				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm 0 20	m
1	BIT SUB	1 06	m
26	H W D P	238 29	m
94	DRILLPIPE	STANDS 1808.34	m
	DRILLPIPE	SINGLES	m
	KELLY DOWN	12.21	m
	TOTAL	2060.10	m
	WT. OF D.C.	15	1000 daN
	WT. OF STRING	43	1000 daN

DRILLERS SIGNATURE | DARRELL LAPLANTE

BIT RECORD

		INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.
BIT NO.										
SIZE (mm)	156.0									
IADC CODE	5 3 7									
MFG.	SMITH									
Type	XR 38T									
SERIAL NO.	NK4 286									
JETS (mm)	15 15 15									
DEPTH IN (m)	2035.00									
DEPTH OUT (m)										
TOTAL METER	25.00									
TOTAL HOURS	6.00									

DRAG dan
TORQUE
FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME
DENSITY kg/m3
FUNNEL VIS s/l
W.L. cm/ FILCK
PH

MUD MATERIALS USED

TYPE	QTY	UNITS
BIO-LOSE	6	SX
STAFLO	4	SX
CAL CARB 'O'	165	SX
CAL CARB 325	179	SX
SOLUFLAKE-FINE	25	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

2140 @ 59 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	380

MACP 5448
MAX HOOKLOAD 53

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1945	7.75	5	MONITOR WELL
1945	2100	1.25	5	pump pill, circ well, monitor losses
2100	2400	3.00	5	RUN IN 2m, ROTATE, MONITOR FOR LOSSES, CIRC BTMS UP, REPEAT.
2400				

Notes: check crown saver and set brakes
BLEW BOILER DOWN 3 TIMES

DRILLING CREW PAYROLL DATA

WELL NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	3	14

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD

RIG MANAGER	RIG NO
TONY IRWIN	55

PROVINCE	CAMP	X	YES		NO	RIG SAFETY DAYS
N.W.T.						2155

EVENING TOUR	FROM	0	TO	1200			INJURIES	
CREW	SOC. INS. NO.	NAME			HOURS		YES	NO
DRILLER		DAVE RYAN			8 00			DR
DERRICK HAND		MIKE BARANIUK			8 00			MB
MOTOR HAND		Graeme McWha			8 00			GM
FLOOR HAND		JOHN PAUL			8 00			JP
FLOOR HAND		MICHAEL SAM			8 00			MS
LEASE HAND		MOISE PUNCH			8 00			MP

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT
		CREW SAFETY DAYS		
		24		

DAY TOUR	FROM	1200	TO	2400			INJURIES	
CREW	SOC. INS. NO.	NAME			HOURS		YES	NO
WELL SITE CORD		LOUIS SIMONKA			8.00			LS
DRILLER		DARRELL LAPLANTE			8.00			DL
DERRICK HAND		CLINTON GALLIFORD			8 00			CG
MOTOR HAND		JOHN WIPF			8.00			JW
FLOOR HAND		WYATT Boucher			8 00			WB
FLOOR HAND		JONAHTON CARLICK			8 00			JC
LEASE HAND		TOM STEWART			8 00			TS
DRILLER		KEVIN BERGSON			8 00			KB
WELLSITE COR		Graeme McWha			8 00			GM
DERRICK HAND		MIKE BARANIUK			8 00			MB
MOTOR HAND		ANDY ALBERT			8 00			AA
FLOOR HAND		JIM NEMETH			8 00			JN
FLOOR HAND		PETER MANWART			8 00			PM
LEASE HAND		DARREN HAZENBERG			8 00			DH

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT
		CREW SAFETY DAYS		

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR. : ANADARKO CANADA ENERGY		CONTRACTOR : AKITA DRILLING LTD.	
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		TONY IRWIN	SAFETY TOPIC

	Opr.	R.H.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Preformed	JE	TI
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 13

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 120 | BOILER 112

WEATHER: TEMPERATURE -22 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
168	89.00	DC	76	165	4.5 X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP	MIDDLE	BOTTOM
115	115	80
120	120	115

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					11.75		0.25																				12.00
DAY					11.50																	0.50					12.00
EVE																											
TOTAL					23.25		0.25															0.50					24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

1	BIT/ MILLS	O.D.mm	0 20 m
1	BIT SUB		1 06 m
26	H W D P		238 29 m
94	DRILLPIPE	STANDS	1808.34m
	DRILLPIPE	SINGLES	m
	KELLY DOWN		12.21 m
	TOTAL		2060.10 m
	WT. OF D.C.		15 1000 dan
	WT. OF STRING		43 1000 dan

DRILLERS SIGNATURE | DAVE RYAN

BIT RECORD

BIT NO.	
SIZE (mm)	156.0
IADC CODE	5 3 7
MFG.	SMITH
Type	XR38T
SERIAL NO.	NK4826
JETS (mm)	15 15 15 15
DEPTH IN (m)	2035.00
DEPTH OUT (m)	
TOTAL METER	25.00
TOTAL HOURS	6.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P
								4 16

DRAG dan | 14 UP ,3 D

TORQUE

FILL m

MUD RECORD

WATER BASED | X | OIL BASED

TIME	
DENSITY kg/m3	
FUNNEL VIS s/l	
W.L. cm/ FILCK	
PH	

MUD MATERIALS USED

TYPE	QTY	UNITS
CAL CARB 'O	42	SX
CAL CARB 325	37	SX
SOLUFLAKE-FINE	15	SX
STAFLO	2	SX
BIO-LOSE	3	SX
SUPER-CAL	12	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

2880 @ 58 @ 2027

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	370

MACP 5448

MAX HOOKLOAD 58

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	145	1.75	5	MONITOR WELL
145	200	0.25	5	PUMP PILL #7
200	415	2.25	5	MONITOR WELL
415	430	0.25	5	PUMP PILL #8
430	700	2.50	5	MONITOR WELL
700	715	0.25	5	PUMP PILL #9
715	845	1.50	5	MONITOR WELL
845	915	0.50	5	PUMP PILL #10 17.5 m3 CASE 8.2m3
915	1045	1.50	5	MONITOR WELL AND TOP FILL
1045	1115	0.50	5	PUMP PILL #11 15.0 m3 CASE 8.2 m3
1115	1145	0.50	5	MONITOR WELL AND TOP FILL
1145	1200	0.25	7	RIG SERVICE/FUNTION UPPER PIPE RAMS
1200				LEL MONITOR CHECK O.K. GM.
				TOTAL VOLUME PUMPED FROM 800/1200AM 76.5m3

Notes: FUNCTIONED ANNULAR - PREVENTER,
MJ-1877 ,TMJ-142,932 LL-1330
FUNTION CHECK PASON CHOKE

DAY SHIFT

LICENCE NO. :

WELL NAME AND NO. : **ANADARKO NETLA A-68**

OPERATOR : **ANADARKO CANADA ENERGY**

CONTRACTOR : **AKITA DRILLING LTD.**

SURFACE LOCATION : **60:47:07.40 N 122:41:38.90 E**

UNIQUE I.D. :

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

JIM ELLIOTT

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

TONY IRWIN

Opr.	R.M.	
JE	TI	(1) Daily Walk Around Inspection
		(2) Detailed Inspection-Weekly (Using Check List)
JE	TI	(3) H2S Signs Posted(If Required)
JE	TI	(4) Well License & Stick Diagram Posted
JE	TI	(5) Flare Lines Staked
JE	TI	(6) BOP Drills Preformed
JE	TI	(7) Visually Inspect BOP's - Flarelines & Degasser Lines
		(1) Rig Site Health and Safety Meeting (one/crew/month)
		(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)
		(3) Mast Inspection Before Raising or Lowering
	TI	(4) Crown Saver Checked
		(5) Motor Kills Checked

YEAR 2002 | MONTH 3 | DAY 13

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 120 | BOILER 112

WEATHER: TEMPERATURE -22 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	65	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | | NO

TOP	115	TOP	120
MIDDLE	115	MIDDLE	120
BOTTOM	80	BOTTOM	115

RENTALS / SERVICES

	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					11.75		0.25																				
DAY					11.50																	0.50					12.00
EVE																											12.00
TOTAL					23.25		0.25															0.50					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0 20 m
1	BIT SUB		1 06 m
26	H W D P		238 29 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
94	DRILLPIPE	STANDS	1808.34 m
	DRILLPIPE	SINGLES	m
KELLY DOWN			12.21 m
TOTAL			2060.10 m
WT. OF D.C.			15 1000 dan
WT. OF STRING			43 1000 dan

BIT RECORD

BIT NO.	
SIZE (mm)	156.0
IADC CODE	5 3 7
MFG.	SMITH
Type	XR38T
SERIAL NO.	NK4826
JETS (mm)	15 15 15
DEPTH IN (m)	2035.00
DEPTH OUT (m)	
TOTAL METER	25.00
TOTAL HOURS	6.00

INNER | OUTER | DULL | LOCATION | BEARINGS | GAGE/mm | OTHER | REASON | R.O.P.

DRAG dan | 14 UP

TORQUE

FILL m

DRILLERS SIGNATURE | DARRELL LAPLANTE

MUD RECORD

WATER BASED | OIL BASED

TIME

DENSITY kg/m3

FUNNEL

VIS s/l

W.L. cm/

FILCK

PH

MUD MATERIALS USED

TYPE	QTY	UNITS
BIO LOSE	5	SX
CAL CARB Q	81	SX
CAL CARB 325	81	SX
CAL CARB SUP	81	SX
SOLUFLAKE-FINE	80	SX
STAFLO	4	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)

PUMP NO. 1 LINER(mm)	SPM	PUMP NO. 2 LINER(mm)	SPM
152.0		152.0	

REDUCED PUMP SPEED

@ 0 | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10 0	375

MACP	5448
MAX HOOKLOAD	58

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1245	0.75	5	MONITOR AND TOP FILL
1245	1345	1.00	5	PUMP PILL #12 17.5m3 CASE WITH 8.2 m3
1345	1415	0.50	5	MONITOR AND TOP FILL
1415	1445	0.50	22	BLOW MANIFOLD AND KELLY
1445	1900	4.25	5	TOP FILL AND MONITOR WELL
1900	2400	5.00	5	TOP FILL AND MONITOR WELL
2400				

TOTAL VOLUME PUMPED FROM 1200-1900 HRS-83 m3

TOTAL VOLUME PUMPED FROM 1900-2400=48m3

Notes:

FUNTIONED UPPER AND LOWER PIPE RAMS AND HCR

DRILLING CREW PAYROLL DATA

WELL NAME & NO		YEAR	MONTH	DAY
ANADARKO NETLA A-68		2002	3	13
OPERATOR	CONTRACTOR			
ANADARKO CANADA ENERGY	AKITA DRILLING LTD.			
RIG MANAGER			RIG NO	
TONY IRWIN			55	
PROVINCE	CAMP X YES NO		RIG SAFETY DAYS	
N.W.T			2154	

EVENING TOUR FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DAVE RYAN	12.00		DR
DERRICK HAND		MIKE BARANIUK	12.00		MB
MOTOR HAND		Graeme McWha	12.00		GM
FLOOR HAND		JOHN PAUL	12.00		JP
FLOOR HAND		MICHAEL SAM	12.00		MS
LEASE HAND		MOISE PUNCH	12.00		MP

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT

CREW SAFETY DAYS: 23

DAY TOUR FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
WELL SITE CORD		LOUIS SIMONKA	12.00		LS
DRILLER		DARRELL LAPLANTE	12.00		DL
DERRICK HAND		CLINTON GALLIFORD	12.00		CG
MOTOR HAND		JOHN WIPF	12.00		JW
FLOOR HAND		WYATT Boucher	12.00		WB
FLOOR HAND		JONAHTON CARLICK	12.00		JC
LEASE HAND		TOM STEWART	12.00		TS

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT

CREW SAFETY DAYS: 20

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR. : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	TONY IRWIN

	Opr.	R.M.
(1) Daily W alk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		TI
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Performed	JE	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		TI
(2) C.A .O.D.C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 12

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 145 | BOILER 170

WEATHER: TEMPERATURE -23 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP	115	TOP	120
MIDDLE	115	MIDDLE	120
BOTTOM	80	BOTTOM	115

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		4.00			7.75		0.25																				12.00
DAY		1.50			10.50																						12.00
EVE																											
TOTAL		5.50			18.25		0.25																				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.				
1	BIT/ MILLS	O.D.mm	0.20	m
1	BIT SUB		1.06	m
26	H W D P		238.29	m
				m
				m
				m
				m
				m
				m
				m
				m
				m
				m
93	DRILLPIPE	STANDS	1789.14	m
1	DRILLPIPE	SINGLES	9.61	m
	KELLY DOWN		9.51	m
	TOTAL		2047.81	m
	WT. OF D.C.		15	1000 dan
	WT. OF STRING		43	1000 dan

BIT RECORD

BIT NO.	
SIZE (mm)	156.0
IADC CODE	5 3 7
MFG.	SMITH
Type	XR38T
SERIAL NO.	NK4826
JETS (mm)	15 15 15 15
DEPTH IN (m)	2035.00
DEPTH OUT (m)	2047.00
TOTAL METER	12.00
TOTAL HOURS	4.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(inch)	OTHER	REASON	R.O.P
								2.66

DRAG dan	15 UP
TORQUE	275
FILL m	0.00

DRILLERS SIGNATURE | DAVE RYAN

MUD RECORD

WATER BASED | X | OIL BASED |

TIME	200	600
DENSITY kg/m3	1010	1010
FUNNEL VIS s/l	38	40
W.L. cm/ FILCK	5.0	
PH	11.5	11.0
pvt	37.40	

MUD MATERIALS USED

TYPE	QTY	UNITS
BIO-LOSE	19	SX
CAL CARB 'O'	64	SX
STAFLO	12	SX
SOLUFLAKE-FINE	19	SX
SOLUFLAKE-MED	19	SX
CAL CARB 325	23	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M	WT. ON BIT
2036.00	2047.00	D	45	5
2047.00	2052.50	D	60	5

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
6290	152.0	90	152.0	

REDUCED PUMP SPEED

2880 @ 58 @ 2027

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	360

MACP	5448
MAX HOOKLOAD	58

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	115	1.25	2	DRILL-2036-2040
115	130	0.25	7	RIG SERVICE- FUNCTIONED LOWER PIPE RAMS,7 SECS CLOSE ,7 SECS OP.
130	315	1.75	2	DRILL- 2040- 2047
315	800	4.75	5	COND MUD & CIRC- PULL UP TO 2036, MIX LCM
800	830	0.50	5	PUMP LOST CIRCULATION PILL AND CASE WITH 10 m3
830	1000	1.50	5	MONITOR WELL TOP UP WITH HOLE FILL
1000	1045	0.75	2	DRILL FROM 2047 TO 2050 M.
1045	1115	0.50	5	CIRCULATE UP SAMPLE
1115	1130	0.25	2	DRILL FROM 2050 TO 2052.5 M.
1130	1200	0.50	5	CIRCULATE UP SAMPLE
1200				
				BOILER BLOW DOWN- 3 X 7 SECS

Notes: FUNCTIONED LOWER PIPE RAMS,7 SECS CLOSE, 7 SECS OPEN

MJ-1146, TMJ-141828, LL1330

FUNCTIONED COROWN SAVER AND VISUALLY INSPECTED BRAKES

DAY SHIFT

LICENCE NO. :

WELL NAME AND NO. : **ANADARKO NETLA A-68**

OPERATOR : **ANADARKO CANADA ENERGY**

CONTRACTOR : **AKITA DRILLING LTD.**

SURFACE LOCATION. : **60:47:07.40 N 122:41:38.90 E**

UNIQUE I.D. :

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

JIM ELLIOTT

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

TONY IRWIN

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		TI
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Preformed	JE	
(7) Virually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		TI
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 12

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 145 | BOILER 170

WEATHER: TEMPERATURE -23 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

	TOP	MIDDLE	BOTTOM
	115	115	80
	120	120	115

RENTALS / SERVICES

	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIDUP& TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP/B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		4.00			7.75		0.25																				12.00
DAY		1.50			10.50																						12.00
EVE																											
TOTAL		5.50			18.25		0.25																				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
1	BIT SUB		1.06 m
26	H W D P		238.29 m
94	DRILLPIPE	STANDS	1808.34 m
	DRILLPIPE	SINGLES	m
	KELLY DOWN	12.21	m
	TOTAL	2060.10	m
	WT. OF D.C.	15	1000 dan
	WT. OF STRING	43	1000 dan

BIT RECORD

		INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.
BIT NO.										
SIZE (mm)	156.0									
IADC CODE	5 3 7									
MFG.	SMITH									
Type	XR38T									
SERIAL NO.	NK4826									
JETS (mm)	15 15 15 1									
DEPTH IN (m)	2035.00									
DEPTH OUT (m)	2060.00									
TOTAL METER	25.00									
TOTAL HOURS	6.00									4.16
DRAG dan	15 UP ,									
TORQUE	275									
FILL m	0.00									

DRILLERS SIGNATURE DARRELL LAPLANTE

MUD RECORD

WATER BASED	X	OIL BASED
TIME	1030	1600
DENSITY kg/m3	1010	1015
FUNNEL VIS s/l	41	40
W.L. cm/ FILCK	6.0	6.0
PH	11.0	10.5
PVT	43.00	42.00

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2052.50	2060.00	D	50	5

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9260	152.0	90	152.0	

REDUCED PUMP SPEED

2880 @ 58 @ 2027

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	370

MACP 5448

MAX HOOKLOAD 58

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1215	0.25	2	DRILL FROM 2052.5 TO 2055M.
1215	1245	0.50	5	PUMP LCM PILL # 2 AND CASE WITH 10 m3
1245	1315	0.50	5	MONITOR WELL /TOP FILL AND RECORDE LOSSES
1315	1345	0.50	5	PUMP PILL # 3 AND CASE WITH 10 m3
1345	1600	2.25	5	MONITOR WELL AND TOP FILL WITH TRIP PUMP
1600	1715	1.25	2	DRILL FROM 2055 TO 2060 M. LOSSES 14 m3
1715	1745	0.50	5	PUMP PILL # 4 AND CASE WITH 10 m3
1745	1930	1.75	5	MONITOR WELL AND TOP FILL
1930	2115	1.75	5	MONITOR WELL , CHASE WITH 9.5 m3
2115	2130	0.25	5	PUMP PILL #5
2130	2315	1.75	5	MONITOR WELL
2315	2330	0.25	5	PUMP PILL #5
2330	2400	0.50	5	MONITOR WELL
2400				

Notes: safety audit stephen Green Akita Drilling Safety Supervisor

DRILLING CREW PAYROLL DATA

WELL NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	3	12

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD.

RIG MANAGER	RIG NO
TONY IRWIN	55

PROVINCE	CAMP	RIG SAFETY DAYS
N W T	[X] YES [ ] NO	2153

EVENING TOUR — FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DAVE RYAN	12 00		DR
DERRICK HAND		MIKE BARANIUK	12 00		MB
MOTOR HAND		Graeme McWha	12 00		GM
FLOOR HAND		JOHN PAUL	12 00		JP
FLOOR HAND		MICHAEL SAM	12 00		MS
LEASE HAND		MOISE PUNCH	12 00		MP

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT

CREW SAFETY DAYS: 22

DAY TOUR — FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
WELL SITE CORD		LOUIS SIMONKA	12 00		LS
DRILLER		DARRELL LAPLANTE	12 00		DL
DERRICK HAND		CLINTON GALLIFORD	12 00		CG
MOTOR HAND		JOHN WIPF	12 00		JW
FLOOR HAND		WYATT Boucher	12 00		WB
FLOOR HAND		JONAHTON CARLICK	12 00		JC
LEASE HAND		TOM STEWART	12 00		TS

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT

CREW SAFETY DAYS

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	TONY IRWIN

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)	JE	
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Slick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Performed	JE	TI
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 11

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 160 | BOILER 217

WEATHER: TEMPERATURE -26 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC: H2S ;AIR PAKS

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC , DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X.H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | | NO

TOP	115	TOP	120
MIDDLE	115	MIDDLE	120
BOTTOM	80	BOTTOM	115

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	LEAK OFF	DRILL FLOA				
MORN		2.25			5.50	0.50	0.25															0.75	2.75				12.00
DAY		0 50			1.00	9.00	0.25		1.00												0.25						12.00
EVE																											
TOTAL		2.75			6.50	9.50	0.50		1.00												0.25	0.75	2.75				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0 20 m
1	BIT SUB		1 06 m
26	H W D P		238 29 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
93	DRILLPIPE	STANDS	1789.14 m
	DRILLPIPE	SINGLES	m
	KELLY DOWN		7.11 m
	TOTAL		2035.80 m
	WT. OF D.C.		15 1000 daN
	WT. OF STRING		45 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	156.0
IADC CODE	
MFG.	REED
Type	HP-12
SERIAL NO	3L121
JETS (mm)	15 15 15 15
DEPTH IN (m)	2028.00
DEPTH OUT (m)	2035 00
TOTAL METER	7 00
TOTAL HOURS	2 25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE/mm	OTHER	REASON	R.O.P.

DRAG daN 8/9 UP . 3

TORQUE 400

FILL m

DRILLERS SIGNATURE DAVE RYAN

MUD RECORD

WATER BASED		OIL BASED	
TIME	230	630	800
DENSITY kg/m3		1000	1010
FUNNEL VIS s/l		36	36
W.L. cm/ FILCK			6.5
PH	10.5	11.5	11 5
pvt^	42.80	41.00	41 10

MUD MATERIALS USED

TYPE	QTY	UNITS
BLEACH	5	PAILS
STAFLO	4	SX
BIO-LOSE	30	SX
CAUSTIC	1	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2028 00	2035 00	D	60	6

Circ. Press (kPa) 6300

PUMP NO. 1		PUMP NO. 2	
LINER(mm)	SPM	LINER(mm)	SPM
152.0		152.0	90

REDUCED PUMP SPEED

@ 59 @ 3010

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
0.00			

2

HOURS	INTAKE	OVERFLOW	UNDERFLOW
0.00			

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	350

MACP 5448

MAX HOOKLOAD 54

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	30	0.50	5	COND. MUD,AND CIRC. PICK UP KELLY, AND FILL PIPE ,RACK KELLY
30	100	0.50	6	TRIPS- PICK UP PIPE-1971.14-2006.58,TAG CEMENT
100	515	4.25	5	COND MUD & CIRC- MUD UP
515	800	2.75	23	DRILL-DRILL OUT FLOAT AT 2009,DRILL 13.88METRES CEMENT
800	830	0.50	2	DRILL FROM 2028 TO 2031 M.
830	915	0.75	5	CIRCULATE UP SAMPLE AT 2031 M.
915	1000	0.75	22	PRESSURE INTERGERTY TEST HELD 5500 KPA / 10 MIN.S
1000	1145	1.75	2	DRILL FROM 2031 TO 2035 M.
1145	1200	0.25	7	RIG SERVICE /FUNTION UPPER PIPE RAMS
1200				

Notes: MJ-4437 TMJ-140119 LL-1338

FUUNCTIONED UPPER PIPE RAMS, 6 SECS CLOSED , 6 OPEN

FUNCTIONED CROWN SAVER, VISUAL INSPECTION OF BRAKE LINKAGE

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR. : ANADARKO CANADA ENERGY		CONTRACTOR: AKITA DRILLING LTD.	
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		TONY IRWIN	

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)	JE	
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Performed	JE	TI
(7) Visually Inspect BOP's - Flarelnes & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 11

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 160 | BOILER 217

WEATHER: TEMPERATURE -26 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP	115	120
MIDDLE	115	120
BOTTOM	80	115

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	LEAK OFF	DRILL FLOA				
MORN		2.25			5.50	0.50	0.25															0.75	2.75				12.00
DAY		0.50			1.00	9.00	0.25		1.00												0.25						12.00
EVE																											
TOTAL		2.75			6.50	9.50	0.50		1.00												0.25	0.75	2.75				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20
1	BIT SUB		1.06
26	H W D P		238.29
93	DRILLPIPE	STANDS	1789.14
	DRILLPIPE	SINGLES	
	KELLY DOWN		7.11
	TOTAL		2035.80
	WT. OF D.C.		15
	WT. OF STRING		45

BIT RECORD

BIT NO.		
SIZE (mm)	156.0	156.0
IADC CODE		5 3 7
MFG.	REED	SMITH
Type	HP-12	XR38T
SERIAL NO	3L121	NK4826
JETS (mm)	15.15.15.1	15.15.15.1
DEPTH IN (m)	2028.00	2035.00
DEPTH OUT (m)	2035.00	
TOTAL METER	7.00	1.00
TOTAL HOURS	2.25	0.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.
								2.00

1000 daN	DRAG daN	15 UP, 4 D
	TORQUE	300
1000 daN	FILL in	0.00

DRILLERS SIGNATURE | DARRELL LAPLANTE

MUD RECORD

WATER BASED | OIL BASED

TIME	
DENSITY kg/m3	
FUNNEL VIS s/l	
W.L. cm/ FILCK	
PH	

MUD MATERIALS USED

TYPE	QTY	UNITS
CAL CARB 325	25	SX
STAFLO	2	SX
XAPLAN D	1	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2035.00	3036.00	D	50	5

Circ. Press (kPa)

PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
152.0		152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	360

MACP 5448

MAX HOOKLOAD 58

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1230	0.50	5	COND MUD & CIRC
1230	1330	1.00	6	BIT TRIP AT 2035M. FLOW CHECKS AT 2028,1930,1735M.
1330	1345	0.25	21	SAFETY MTG./ BOP. DRILL / FIRE DRILL
1345	1715	3.50	6	BIT TRIP 1735TO 0M. FLOW CHECKS AT 1160,260 , 0 M.
1715	1730	0.25	7	RIG SERVICE / CLOSED BLIND RAMS
1730	1815	0.75	6	MAKE UP BIT # 5 RUN IN HOLE TO 300 M.
1815	1915	1.00	9	CUT OFF DRLL LINE FLOW CHECK AT 10 MIN. INTERVALS
1915	2130	2.25	6	TRIPS-RIH-893
2130	2145	0.25	5	COND MUD & CIRC- KELLY UP, FILL PIPE,RACK RACK KELLY
2145	2215	0.50	6	TRIPS-RIH-893-1604,
2215	2230	0.25	5	COND MUD & CIRC -PICK UP KELLY FILL PIPE RACK KELLY
2230	2330	1.00	6	TRIPS- FLOW CHECK,RIH-1604-2035
2330	2400	0.50	2	DRILL-2035 -2036
2400				LEL MONITOR CHECK O.K. GM.

Notes: CHECK CROWN SAVER INSPECT BRAKELINKAGE

BOILER BLOWN 3@12SEC. TRIP SHEET CAL. 6.23 MAS. 11.35 DIFF. 5.1

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	3	11

OPERATOR	CONTRACTOR	RIG NO
ANADARKO CANADA ENERGY	AKITA DRILLING LTD	55

RIG MANAGER	PROVINCE	CAMP	RIG SAFETY DAYS
TONY IRWIN	N.W.T.	X YES NO	2152

EVENING TOUR — FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DAVE RYAN	12.00		DR
DERRICK HAND		MIKE BARANIUK	12.00		MB
MOTOR HAND		Graeme McWha	12.00		GM
FLOOR HAND		JOHN PAUL	12.00		JP
FLOOR HAND		MICHAEL SAM	12.00		MS
LEASE HAND		MOISE PUNCH	12.00		MP

RATE SCHEDULE — X REGULAR — REPAIR — INVERT

CREW SAFETY DAYS

21

DAY TOUR — FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
WELL SITE CORD		LOUIS SIMONKA	12.00		LS
DRILLER		DARRELL LAPLANTE	12.00		DL
DERRICK HAND		CLINTON GALLIFORD	12.00		CG
MOTOR HAND		JOHN WIPF	12.00		JW
FLOOR HAND		WYATT Boucher	12.00		WB
FLOOR HAND		JONAHTON CARLICK	12.00		JC
LEASE HAND		TOM STEWART	12.00		TS

RATE SCHEDULE — X REGULAR — REPAIR — INVERT

CREW SAFETY DAYS

EVENING SHIFT

LICENCE NO. :

WELL NAME AND NO. : **ANADARKO NETLA A-68**

OPERATOR : **ANADARKO CANADA ENERGY**

CONTRACTOR : **AKITA DRILLING LTD.**

SURFACE LOCATION. : **60:47:07.40 N 122:41:38.90 E**

UNIQUE I.D. :

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

JIM ELLIOTT

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

TONY IRWIN

Opr.	R.M.
JE	TI
JE	TI
JE	TI
JE	TI
JE	TI
	TI

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

YEAR 2002 | MONTH 3 | DAY 10

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 90 | BOILER 168

WEATHER: TEMPERATURE -31 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X.H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP	MIDDLE	BOTTOM
115	115	80
120	120	115

RENTALS / SERVICES

	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	HNDL TOOL					
MORN							0.25	2.25					5.00									4.50					12.00
DAY						5.00	0.25	5.50													0.50		0.75				12.00
EVE																											
TOTAL						5.00	0.50	7.75					5.00								0.50	4.50	0.75				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.		
1	BIT/ MILLS	O.D.mm 0 20
1	BIT SUB	1 06
26	H W D P	
	DRILLPIPE	STANDS
	DRILLPIPE	SINGLES
	KELLY DOWN	
	TOTAL	1.26
	WT. OF D.C.	
	WT. OF STRING	

BIT RECORD

BIT NO.	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.
SIZE (mm)									
IADC CODE									
MFG.									
Type									
SERIAL NO.									
JETS (mm)									
DEPTH IN (m)									
DEPTH OUT (m)									
TOTAL METER									
TOTAL HOURS									

1000 daN DRAG daN
1000 daN TORQUE
FILL m

DRILLERS SIGNATURE DAVE RYAN

MUD RECORD

WATER BASED | OIL BASED

TIME
DENSITY kg/m3
FUNNEL VIS s/l
W.L. cm/ FILCK
PH

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)

PUMP NO. 1 LINER(mm)	SPM	PUMP NO. 2 LINER(mm)	SPM
152.0		152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	350

MACP
MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	500	5.00	13	WAIT ON CEMENT-CLEAN I NVERT FROM MUD SYSTEM
500	800	3.00	22	HANDLE TOOLS- WASH STACK AND SET PACK OFF BUSHING
800	930	1.50	22	SET SEAL ASSEMBLY P/T TO 21000 KPA
930	945	0.25	7	RIG SERVICE FUNCTION HCR
945	1200	2.25	8	REPAIR RIG WAIT ON AND CHANGE BLIND RAM RUBBERS AND P/T
1200				TO 20000 KPA. PICK UP DC STAND IN DERRICK

Notes: MEG TOTAL 3780 ACCUM 139462 LL 1338M

DAY SHIFT

LICENCE NO.:	WELL NAME AND NO.: ANADARKO NETLA A-68		
OPERATOR: ANADARKO CANADA ENERGY		CONTRACTOR: AKITA DRILLING LTD.	
SURFACE LOCATION.: 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D.:	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		TONY IRWIN	SAFETY TOPIC

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Slick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Preformed	JE	TI
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 10

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 90 | BOILER 168

WEATHER: TEMPERATURE -31 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP 115 | MIDDLE 115 | BOTTOM 80

TOP 120 | MIDDLE 120 | BOTTOM 115

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1 RIG UP & TEARDOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRLG LINE	10 DEV. SURVEY	11 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P	15 TEST B.O.P	16 DRILL STEM	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIRECTIONAL WORK	21 SAFETY MEETING	22 HNDL TOOL	23	24	25	26	TOTAL
OPER.																											
MORN							0.25	2.25					5.00									4.50					12.00
DAY						5.00	0.25	5.50													0.50		0.75				12.00
EVE																											
TOTAL						5.00	0.50	7.75					5.00								0.50	4.50	0.75				24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

1	BIT/ MILLS	O.D.mm	0.20 m
1	BIT SUB		1.06 m
26	H W D P		238.29 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
89	DRILLPIPE	STANDS	1712.33 m
1	DRILLPIPE	SINGLES	9.63 m
	KELLY DOWN		m
	TOTAL		1961.51 m
	WT. OF D.C.		1000 dan
	WT. OF STRING		1000 dan

DRILLERS SIGNATURE | DARRELL LAPLANTE

BIT RECORD

BIT NO.

SIZE (mm) 156.0

IADC CODE

MFG. REED

Type

SERIAL NO. HP12

JETS (mm)

DEPTH IN (m) 2006.58

DEPTH OUT (m)

TOTAL METER

TOTAL HOURS

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME

DENSITY kg/m3

FUNNEL VIS s/l

W.L. cm/ FILCK

PH

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)

PUMP NO. 1 LINER(mm)	SPM	PUMP NO. 2 LINER(mm)	SPM
152.0		152.0	

REDUCED PUMP SPEED @ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	355

MACP 0

MAX HOOKLOAD 54

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1730	5.50	8	REPAIR RIG W O BLINDS P/T 20000 KPA
1730	1815	0.75	23	SET WEEAR BUSHING
1815	1830	0.25	21	SAFETY MTG.
1830	2130	3.00	6	TRIPS-RIH-221-852
2130	2145	0.25	21	SAFETY MTG.- RIG CREW AND H2S SAFETY HANDS
2145	2200	0.25	7	RIG SERVICE
2200	2400	2.00	6	TRIPS-RACK KELLY, RIH 852- 1961.51 FILL DP 900M
2400				

LEL MONITOR CHECK O.K. GM.

Notes:

DRILLING CREW PAYROLL DATA

WELL NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	3	10

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD

RIG MANAGER	RIG NO
TONY IRWIN	55

PROVINCE	CAMP	X	YES	NO	RIG SAFETY DAYS
N.W.T.					2151

EVENING TOUR FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DAVE RYAN	12.00		DR
DERRICK HAND		MIKE BARANIUK	12.00		MB
MOTOR HAND		Graeme McWha	12.00		GM
FLOOR HAND		JOHN PAUL	12.00		JP
FLOOR HAND		MICHAEL SAM	12.00		MS
LEASE HAND		MOISE PUNCH	12.00		MP

RATE SCHEDULE	REGULAR	REPAIR	X	INVERT

CREW SAFETY DAYS
20

DAY TOUR FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
WELL SITE CORD		LOUIS SIMONKA	12.00		LS
DRILLER		DARRELL LAPLANTE	12.00		DL
DERRICK HAND		CLINTON GALLIFORD	12.00		CG
MOTOR HAND		JOHN WIPF	12.00		JW
FLOOR HAND		WYATT Boucher	12.00		WB
FLOOR HAND		JONAHTON CARLICK	12.00		JC
LEASE HAND		TOM STEWART	12.00		TS

RATE SCHEDULE	REGULAR	REPAIR	X	INVERT

CREW SAFETY DAYS

EVENING SHIFT

LICENCE NO. :

WELL NAME AND NO. : **ANADARKO NETLA A-68**

OPERATOR. : **ANADARKO CANADA ENERGY**

CONTRACTOR: **AKITA DRILLING LTD.**

SURFACE LOCATION. : **60:47:07.40 N 122:41:38.90 E**

UNIQUE I.D. :

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

JIM ELLIOTT

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

TONY IRWIN

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
JE	TI
JE	TI
JE	TI
JE	TI
JE	TI
JE	TI

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

TI

YEAR 2002 | MONTH 3 | DAY 9

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 170 | BOILER 240

WEATHER: TEMPERATURE -22 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC PWR TONG,PIPE HNDLR

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP	115	120
MIDDLE	115	120
BOTTOM	80	115

RENTALS / SERVICES

	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	WEAR BUS					
MORN							0 25				1.75	8.75									0.50	0.75					12.00
DAY					1.75		0 25					6.75	3.00								0.25						12.00
EVE																											
TOTAL					1.75		0 50				1.75	15.50	3.00								0.75	0.75					24 00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.

BIT/ MILLS | O.D.mm

DRILLPIPE STANDS

DRILLPIPE SINGLES

KELLY DOWN

TOTAL

WT. OF D.C.

WT. OF STRING

DRILLERS SIGNATURE DAVE RYAN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | Type | SERIAL NO. | JETS (mm) | DEPTH IN (m) | DEPTH OUT (m) | TOTAL METER | TOTAL HOURS | INNER | OUTER | DULL | LOCATION | BEARINGS | GAGE/mm | OTHER | REASON | R.O.P.

1000 daN DRAG dan

1000 daN TORQUE

1000 daN FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME

DENSITY kg/m3

FUNNEL VIS s/l

W.L. cm/ FILCK

PH

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)

PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
152.0		152.0	

REDUCED PUMP SPEED

@ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	35

MACP 6361

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE-
15	200	1.75	11	WIRE LINE LOGS- RIG OUT LOGGING TOOLS
200	245	0.75	22	RETRIEVE WEAR BUSHING
245	300	0.25	21	SAFETY MTG.- WITH PIPE HANDLERS PRIOR TO RIGGING THEM UP
300	315	0.25	21	SAFETY MTG.-WITH TONG HAND- PRIOR TO RIGUP
315	800	4.75	12	RUN CASING- RIG IN TONG HAND AND PIPE HANDLER
800	1200	4.00	12	RUN CASING
1200				

Notes: MJ=2924,TMJ=138606,LL=1338

FUNCTIONED BLIND RAMS ,7 CLOSE, 7 OPEN

FUNTIONED CROWN SAVER AND VISUALLY INSPECTED BRAKES

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR : ANADARKO CANADA ENERGY		CONTRACTOR: AKITA DRILLING LTD.	
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		TONY IRWIN	SAFETY TOPIC

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Preformed	JE	TI
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
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(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 9

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 170 | BOILER 240

WEATHER: TEMPERATURE -22 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . OP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
115	120
MIDDLE 115	MIDDLE 120
BOTTOM 80	BOTTOM 115

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	WEAR BUS					
MORN							0.25				1.75	8.75									0.50	0.75					12.00
DAY					1.75		0.25					6.75	3.00								0.25						12.00
EVE																											
TOTAL					1.75		0.50				1.75	15.50	3.00								0.75	0.75					24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

BIT/ MILLS	O.D.mm	m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
DRILLPIPE	STANDS	m
DRILLPIPE	SINGLES	m
KELLY DOWN		m
TOTAL		m
WT. OF D.C.		1000 dan
WT. OF STRING		1000 dan

DRILLERS SIGNATURE | DARRELL LAPLANTE

BIT RECORD

| | | | | | | | | | | | | | | | | | | |

DRILLING CREW PAYROLL DATA

WELL NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	3	9

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD

RIG MANAGER	RIG NO
TONY IRWIN	55

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	[X] YES [ ] NO	2150

EVENING TOUR	FROM 0	TO 1200		INJURIES	
CREW	SOC. INS. NO.	NAME	HOURS	YES	NO
DRILLER		DAVE RYAN	12.00		DR
DERRICK HAND		MIKE BARANIUK	12.00		MB
MOTOR HAND		Graeme McWha	12.00		GM
FLOOR HAND		JOHN PAUL	12.00		JP
FLOOR HAND		MICHAEL SAM	12.00		MS
LEASE HAND		MOISE PUNCH	12.00		MP

RATE SCHEDULE	REGULAR		REPAIR	X	INVERT
	CREW SAFETY DAYS				
	19				

DAY TOUR	FROM 1200	TO 2400		INJURIES	
CREW	SOC. INS. NO.	NAME	HOURS	YES	NO
WELL SITE CORD		LOUIS SIMONKA	12.00		LS
DRILLER		DARRELL LAPLANTE	12.00		DL
DERRICK HAND		CLINTON GALLIFORD	12.00		CG
MOTOR HAND		JOHN WIPF	12.00		JW
FLOOR HAND		WYATT Boucher	12.00		WB
FLOOR HAND		JONAHTON CARLICK	12.00		JC
LEASE HAND		TOM STEWART	12.00		TS

RATE SCHEDULE	REGULAR		REPAIR	X	INVERT
	CREW SAFETY DAYS				
	16				

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR. : ANADARKO CANADA ENERGY		CONTRACTOR : AKITA DRILLING LTD.	
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		TONY IRWIN	SAFETY TOPIC: torquing tool joints

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Performed	JE	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 8

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 80 | BOILER 193

WEATHER: TEMPERATURE -18 | CONDITIONS CLEAR | WIND DIRECTION S E | ROAD CONDITION ICE

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	11.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5 X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
115	120
MIDDLE 115	MIDDLE 120
BOTTOM 80	BOTTOM 115

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					6.50	5.50																					12.00
DAY						3.75	0.25		1.00		5.25												1.75				12.00
EVE																											
TOTAL					6.50	9.25	0.25		1.00		5.25												1.75				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.				
1	BIT/ MILLS	O.D.mm	0.25	m
1	DIRECTION	171	38.95	m
1	X O	165	0.94	m
3	D C	165	28.65	m
1	JAR	160	9.84	m
1	D C	165	9.56	m
1	X O	162	0.22	m
22	H W D P	101	201.57	m
				m
				m
				m
				m
				m
				m
				m
90	DRILLPIPE	STANDS	1731.59	m
	DRILLPIPE	SINGLES		m
	KELLY DOWN		6.68	m
	TOTAL		2028.25	m
	WT. OF D.C.		14	1000 dan
	WT. OF STRING		48	1000 dan

DRILLERS SIGNATURE | DAVE RYAN

BIT RECORD

BIT NO.	2
SIZE (mm)	216.0
IADC CODE	
MFG.	HUGHES
Type	GT-03
SERIAL NO	ROODL
JETS (mm)	11. 11. 11.
DEPTH IN (m)	1447.00
DEPTH OUT (m)	2028.00
TOTAL METER	581.00
TOTAL HOURS	34.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.
								16.80

DRAG dan: 8 up 4 dow

TORQUE: 300

FILL m:

MUD RECORD

WATER BASED | OIL BASED X

TIME	100	690
DENSITY kg/m3	950	940
FUNNEL VIS s/l	56	57
W.L. cm/ FILCK		
PH		
	26.80	26.60

MUD MATERIALS USED

TYPE	QTY	UNITS
CARBO-GEL	1.	SX
CAL CARB 325	25.	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	SPM	PUMP NO. 2 LINER(mm)	SPM
13220	152.0	118	152.0	

REDUCED PUMP SPEED

3690 @ 67 @ 2026

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
3.00	940		
	2		
HOURS	INTAKE	OVERFLOW	UNDERFLOW
7.00	940		

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	325

MACP	6361
MAX HOOKLOAD	59

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	300	3.00	5	COND MUD & CIRC
300	400	1.00	6	TRIPS-flow check -pull five stands-flow check, pull-1830 flow check
400	430	0.50	6	TRIPS- RIH-1830-2028
430	800	3.50	5	COND MUD & CIRC
800	1200	4.00	6	TRIPS P.O.OH. FLOW CHECK AT 2021,1924,1444 ,867 M.
1200				
				LEL MONITOR CHECK O.K. GM.
				Shut down centrifuge #1, leaky valve, have to repair. Back on line @

Notes: function crown saver, visually inspected brake linkage

MJ-7021, TMJ-137702 LL1350

koomey-30

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR. : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	TONY IRWIN

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Preformed	JE	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		TI

YEAR 2002 | MONTH 3 | DAY 8

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 80 | BOILER 193

WEATHER: TEMPERATURE -18 | CONDITIONS CLEAR | WIND DIRECTION S E | ROAD CONDITION ICE

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE TH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP	115	TOP	120
MIDDLE	115	MIDDLE	120
BOTTOM	80	BOTTOM	115

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					6.50	5.50																					12.00
DAY						3.75	0.25		1.00		5.25												1.75				12.00
EVE																											
TOTAL					6.50	9.25	0.25		1.00		5.25												1.75				24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D.mm
	DRILLPIPE	STANDS
	DRILLPIPE	SINGLES
KELLY DOWN		
	TOTAL	
WT. OF D.C.		
WT. OF STRING		

BIT RECORD

m	BIT NO.											
m	SIZE (mm)											
m	IADC CODE											
m	MFG											
m	Type											
m	SERIAL NO											
m	JETS (mm)											
m	DEPTH IN (m)											
m	DEPTH OUT (m)											
m	TOTAL METER											
m	TOTAL HOURS											
		INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.		
m												
m												
m												
1000 daN	DRAG daN											
1000 daN	TORQUE											
	FILL m											

MUD RECORD

WATER BASED | OIL BASED

TIME	
DENSITY kg/m3	
FUNNEL VIS s/l	
W.L. cm/ FLCK	
PH	

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	340

MACP 6361

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1315	1.25	6	TRIPS P,O,OH. · FLOW CHECK AT 428 M.
1315	1415	1.00	9	CUT OFF DRLL LINE 12M.
1415	1645	2.50	6	TRIPS P.O.O.H. AND LAY DOWN D.C. S FLOW CHECK ON BANK 0M.
1645	1830	1.75	23	BRAKE DOWN DIRECTIONAL TOOLS
1830	1845	0.25	7	RIG SERVICE CLOSE BLIND RAMS
1845	2015	1.50	11	WIRE LINE LOGS -RIG UP LOGGERS
2015	2130	1.25	11	WIRE LINE LOGS- MAKE UP LOGGING TOOL
2130	2400	2.50	11	WIRE LINE LOGS- LOG-#1-AIT,GR, BHC,SONIC,CALIPER
2400				
				STRAP OUT TO LOG-DP=1731.73 (+.14 metre)
				HOLE FILL CUMULATIVE VOLUME-10.1 CUBES,2.6 OVER EST.

Notes: FUNCTION BLIND RAMS -7 SECS CLOSE 7 OPEN

DRILLERS SIGNATURE DARRELL LAPLANTE

DRILLING CREW PAYROLL DATA

WELL NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	3	8

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD

RIG MANAGER	RIG NO
TONY IRWIN	55

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ☐ NO	2149

EVENING TOUR — FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DAVE RYAN	12.00		DR
DERRICK HAND		MIKE BARANIUK	12.00		MB
MOTOR HAND		Graeme McWha	12.00		GM
FLOOR HAND		JOHN PAUL	12.00		JP
FLOOR HAND		MICHAEL SAM	12.00		MS
LEASE HAND		MOISE PUNCH	12.00		MP

RATE SCHEDULE	REGULAR	REPAIR	X	INVERT

CREW SAFETY DAYS: 18

DAY TOUR — FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
WELL SITE CORD		LOUIS SIMONKA	12.00		LS
DRILLER		DARRELL LAPLANTE	12.00		DL
DERRICK HAND		CLINTON GALLIFORD	12.00		CG
MOTOR HAND		JOHN WIPF	12.00		JW
FLOOR HAND		WYATT Boucher	12.00		WB
FLOOR HAND		JONAHTON CARLICK	12.00		JC
LEASE HAND		TOM STEWART	12.00		TS

RATE SCHEDULE	REGULAR	REPAIR	X	INVERT

CREW SAFETY DAYS:

EVENING SHIFT

LICENCE NO. :

WELL NAME AND NO. : **ANADARKO NETLA A-68**

OPERATOR. : **ANADARKO CANADA ENERGY**

CONTRACTOR : **AKITA DRILLING LTD.**

SURFACE LOCATION : **60:47:07.40 N 122:41:38.90 E**

UNIQUE I.D. :

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

JIM ELLIOTT

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

TONY IRWIN

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		TI
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Preformed	JE	TI
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 7

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 125 | BOILER 194

WEATHER: TEMPERATURE -17 | CONDITIONS | WIND DIRECTION SOUTH | ROAD CONDITION ICE

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING									
TUBING OR									
LINER									

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X.H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

	TOP	MIDDLE	BOTTOM
	115	115	80
	120	120	115

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		9.75					0.25			2.00																	
DAY		3.75			3.50	3.50	0.25			0.75											0.25						12.00
EVE																											12.00
TOTAL		13.50			3.50	3.50	0.50			2.75											0.25						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
1	DIRECTION	171	38.95 m
1	X O	165	0 94 m
3	D C	165	28.65 m
1	JAR	160	9.84 m
1	D C	165	9.56 m
1	X O	162	0.22 m
22	H W D P	101	201 57 m
			m
			m
			m
			m
			m
			m
87	DRILLPIPE	STANDS	1673.96 m
1	DRILLPIPE	SINGLES	9.60 m
	KELLY DOWN		8.46 m
	TOTAL		1982.00 m
	OF D.C.		14
	WT. OF STRING		48

DRILLERS SIGNATURE | KEVIN BERGSON

BIT RECORD

BIT NO.	2
SIZE (mm)	216.0
IADC CODE	
MFG.	HUGHES
Type	GT-03
SERIAL NO.	ROODL
JETS (mm)	11.11.11.
DEPTH IN (m)	1447.00
DEPTH OUT (m)	1982.00
TOTAL METER	535 00
TOTAL HOURS	30.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.
								17.39

1000 dan DRAG dan 9 up 4 d

1000 dan TORQUE 385

1000 dan FILL m

MUD RECORD

WATER BASED | | OIL BASED | X

TIME	330	700	1100
DENSITY kg/m3	925	925	930
FUNNEL VIS s/l	55	53	54
W.L. cm/ FILCK			
PH			
P.V.T.	35.20	31.40	27.70

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1817 00	16.20	143.1
1865 00	12.10	134.3

METERS DRILLED

FROM	TO	DRILL/ REAM/CR	ROTARY R.P.M.	WT. ON BIT
1813 00	1928.00	D	28	8

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
12980	152.0	118	152.0	

REDUCED PUMP SPEED

3910 @ 57 @ 1861

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW
0 00			

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
12 00		920	1700
12 00		920	1590

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	375

MACP 6415

MAX HOOKLOAD 59

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	745	7.75	2	DRILL F/1813m-1928
745	800	0.25	7	RIG SERVICE function upper pipe rams 5 secs close
800	1000	2.00	2	DRILL-1928-1982
1000	1200	2.00	10	DEV. SURVEY- accumulated survey time
1200				
				crew change today

Notes: CHECK CROWN SAVER AND BRAKES

BLEW BOILER DOWN 3 TIMES

m|=5496 tm|=136177 II=1350 koomey=31cm

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR. : ANADARKO CANADA ENERGY	CONTRACTOR: AKITA DRILLING LTD.
SURFACE LOCATION : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	TONY IRWIN

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		TI
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Slick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Preformed	JE	TI
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002	MONTH 3	DAY 7
RIG NO.: 55		
FUEL @ 08:00 HRS.		
RIG 125	BOILER 194	
WEATHER: TEMPERATURE -17		
CONDITIONS		
WIND DIRECTION SOUTH		
ROAD CONDITION ICE		

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X.H	18			

SHALE SHAKER(S)			
NO.	TYPE DFTS	TYPE	
CHANGE SCREENS		YES	NO
TOP 115		TOP 120	
MIDDLE 115		MIDDLE 120	
BOTTOM 80		BOTTOM 115	

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIDUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		9.75					0.25			2.00																	12.00
DAY		3.75			3.50	3.50	0.25			0.75											0.25						12.00
EVE																											
TOTAL		13.50			3.50	3.50	0.50			2.75											0.25						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0 25 m
1	DIRECTION	171	38 95 m
1	X O	165	0 94 m
3	D C	165	28 65 m
1	JAR	160	9 84 m
1	D C	165	9 56 m
1	X O	162	0 22 m
22	H W D P	101	201 57 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
90	DRILLPIPE	STANDS	1731 59m
	DRILLPIPE	SINGLES	m
KELLY DOWN		6.68	m
TOTAL		2028.25	m
[redacted] F D.C.		14	1000 dan
WT. OF STRING		48	1000 dan

DRILLERS SIGNATURE DAVE RYAN

BIT RECORD

BIT NO.	2												
SIZE (mm)	216.0												
IADC CODE													
MFG.	HUGHES												
Type	GT-03												
SERIAL NO	ROODL												
JETS (mm)	11	11	11										
DEPTH IN (m)	1447.00												
DEPTH OUT (m)	2028.00												
TOTAL METER	581.00												
TOTAL HOURS	34.50												
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE/mm	OTHER	REASON	R.O.P.
									16.84

DRAG dan 9 up 4 do

TORQUE 340

FILL m

MUD RECORD

WATER BASED		OIL BASED	X
TIME	1330		
DENSITY kg/m3	920		
FUNNEL VIS s/l	52		
W.L. cm. FILCK			
PH			
PVT	30.80		

MUD MATERIALS USED

TYPE	QTY	UNITS
CARBO-GEL	1	SX
CAL CARB 325	25	

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1982 00	2028 00	D	38	7

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

4150 @ 57 @ 1993

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	920	920	1710
	2		
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	920	920	1560

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	390

MACP 6415

MAX HOOKLOAD 59

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1545	3.75	2	DRILL-1982- to 2028 m.
1545	1630	0.75	10	DEV. SURVEY total time
1630	1715	0.75	5	circulate up bottom hole sample and gas
1715	1730	0.25	7	RIG SERVICE funtion annular
1730	1945	2.25	6	TRIPS wiper trip to 1400 m. flow checks at 2021,1924,1730,1400
1945	2000	0.25	21	SAFETY MTG. bop drill hard shut in 47 sec well secure 3min. 4
2000	2115	1.25	6	TRIPS run in hole from 1400 m. to 2028 flow check at 1735 m.,2
2115	2400	2.75	5	circulate and work pipe
2400				

LEL MONITOR CHECK O.K. GM.

Notes: functioned crown saver and visually inspected brakes

DRILLING CREW PAYROLL DATA

WELL NAME & NO		YEAR	MONTH	DAY
ANADARKO NETLA A-68		2002	3	7
OPERATOR	**CONTRACTOR**			
ANADARKO CANADA ENERGY	AKITA DRILLING LTD			
RIG MANAGER		**RIG NO**		
TONY IRWIN		55		
PROVINCE	**CAMP** X YES ☐ NO	**RIG SAFETY DAYS**		
N.W.T		2148		

EVENING TOUR — FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		KEVIN BERGSON	8.00		KB
DERRICK HAND		TIM PREBOY	8.00		TP
MOTOR HAND		ANDY ALBERT	8.00		AA
FLOOR HAND		JIM NEMETH	8.00		JN
FLOOR HAND		PETER MANWART	8.00		PM
LEASE HAND		DARREN HAZENBERG	8.00		DH

RATE SCHEDULE — REGULAR — REPAIR — X — INVERT

CREW SAFETY DAYS: 17

DAY TOUR — FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DAVE RYAN	8.00		DR
WELL SITE CORD		LOUIS SIMONKA	12.00		LS
DERRICK HAND		MIKE BARANIUK	8.00		MB
MOTOR HAND		Graeme McWha	8.00		GM
FLOOR HAND		JOHN PAUL	8.00		JP
FLOOR HAND		MICHAEL SAM	8.00		MS
LEASE HAND		MOISE PUNCH	8.00		MP
DRILLER		DARRELL LAPLANTE	8.00		DL
DERRICK HAND		CLINTON GALLIFORD	8.00		CG
MOTOR HAND		JOHN WIPF	8.00		JW
FLOOR HAND		WYATT Boucher	8.00		WB
FLOOR HAND		JONAHTON CARLICK	8.00		JC
LEASE HAND		TOM STEWART	8.00		TS

RATE SCHEDULE — REGULAR — REPAIR — X — INVERT

CREW SAFETY DAYS

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR. : ANADARKO CANADA ENERGY		CONTRACTOR : AKITA DRILLING LTD.	
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		TONY IRWIN	SAFETY TOPIC

Opr.	R.M.	
JE	TI	(1) Daily Walk Around Inspection
		(2) Detailed Inspection-Weekly (Using Check List)
JE	TI	(3) H2S Signs Posted(If Required)
JE	TI	(4) Well License & Stick Diagram Posted
JE	TI	(5) Flare Lines Staked
JE		(6) BOP Drills Performed
JE	TI	(7) Visually Inspect BOP's - Flarelines & Degasser Lines
		(1) Rig Site Health and Safety Meeting (one/crew/month)
		(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
		(3) Mast Inspection Before Raising or Lowering
		(4) Crown Saver Checked
	TI	(5) Motor Kills Checked

YEAR 2002 | MONTH 3 | DAY 6

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 183 | BOILER 195

WEATHER: TEMPERATURE -20 | CONDITIONS | WIND DIRECTION CALM | ROAD CONDITION ICE

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5 X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP	115	TOP	120
MIDDLE	115	MIDDLE	120
BOTTOM	80	BOTTOM	115

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		9.00					0.25			2.50												0.25					12.00
DAY		10.00					0.25			1.75																	12.00
EVE																											
TOTAL		19.00					0.50			4.25												0.25					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
1	DIRECTION	171	38.95 m
1	X O	165	0.94 m
3	D C	165	28.65 m
1	JAR	160	9.84 m
1	D C	165	9.56 m
1	X O	162	0.22 m
22	H W D P	101	201.57 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
69	DRILLPIPE	STANDS	1029.18 m
1	DRILLPIPE	SINGLE	6.64 m
KELLY DOWN		12.20	m
TOTAL		1640.00	m
F.D.C.			1000 dan
WT. OF STRING		44	1000 dan

BIT RECORD

BIT NO.	2											
SIZE (mm)	216.0											
IADC CODE												
MFG.	HUGHES											
Type	GT-03											
SERIAL NO.	ROODL											
JETS (mm)	11	11	11									
DEPTH IN (m)	1447.00											
DEPTH OUT (m)												
TOTAL METER	193.00											
TOTAL HOURS	11.00											
		T-B-G	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	ROP
									175
DRAG dan	3 up 2 dow								1000
TORQUE	397								1000
FILL m									dan

DRILLERS SIGNATURE | KEVIN BERGSON

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME	330	700	1030
DENSITY kg/m3	930	930	930
FUNNEL VIS s/l	59	59	56
W.L. cm/ FILCK			
PH			
p.v.t.	33.10	41.80	41.00

MUD MATERIALS USED

TYPE	QTY	UNITS
CALCIUM CHLORID	20	SX
CAL CARB 'O'	6	SX
CARBO-GEL	10	SX
CARBO-TROL	10	SX
INVERT	11	M3
floordry	3	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1490.00	17.90	143.5
1538.00	19.00	136.3
1586.39	18.40	139.5
1625.01	17.50	143.5

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1476.00	1640.00	D	35	7

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
12100	152.0	118	152.0	

REDUCED PUMP SPEED

3910 @ 57 @ 1647

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW
0.00			

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00			1680

HOURS	INTAKE	OVERFLOW	UNDERFLOW
1.00			1585

BOILER

HRS. RUN	PH	STACK deg
12.00	11.0	375

MACP 6470

MAX HOOKLOAD 49

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	145	1.75	2	DRILL F/1476m-1505m
145	200	0.25	7	RIG SERVICE function lower pipe rams 4 secs close
200	215	0.25	22	CHANGE OUT LOWER KELLYCOCK
215	930	7.25	2	DRILL F/1505m-1640m
930	1200	2.50	10	DEV. SURVEY- accumulated survey time
1200				
				LEL MONITOR CHECK O.K. GM.

Notes: CHECK CROWN SAVER AND BRAKES

BLEW BOILER DOWN 3 TIMES

mj=4811 tmj=135292 ll=1350 koomey=27cm

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR. : ANADARKO CANADA ENERGY		CONTRACTOR: AKITA DRILLING LTD.	
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		TONY IRWIN	

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Preformed	JE	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 6

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 183 | BOILER 195

WEATHER: TEMPERATURE -20 | CONDITIONS | WIND DIRECTION CALM | ROAD CONDITION ICE

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E 85		102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W 65		102	4 FH	30	EMSCO	F800	229
166	89.00	DC 76		165	4.5 X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP	115	TOP	120
MIDDLE	115	MIDDLE	120
BOTTOM	80	BOTTOM	115

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		9.00					0.25			2.50												0.25					12.00
DAY		10.00					0.25			1.75																	12.00
EVE																											
TOTAL		19.00					0.50			4.25												0.25					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT / MILLS	O.D.mm	0.25 m
1	DIRECTION	171	38.95 m
1	X O	165	0.94 m
3	D C	165	28.65 m
1	JAR	160	9.84 m
1	D C	165	9.56 m
1	X O	162	0.22 m
22	H W D P	101	201.57 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
78	DRILLPIPE	STANDS	1501.32 m
1	DRILLPIPE	SINGLES	9.55 m
KELLY DOWN			12.21 m
TOTAL			1813.06 m
W.O.B.		D.C.	20 1000 daN
WT. OF STRING			44 1000 daN

DRILLERS SIGNATURE | DAVE RYAN

BIT RECORD

BIT NO.	2
SIZE (mm)	216.0
IADC CODE	
MFG.	HUGHES
Type	GT-03
SERIAL NO.	ROODL
JETS (mm)	11. 11. 11.
DEPTH IN (m)	1447.00
DEPTH OUT (m)	1813.00
TOTAL METER	366.00
TOTAL HOURS	21.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.
								17.4

DRAG daN | 4 up 3 dow

TORQUE | 375

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME	1330	1730	2300
DENSITY kg/m3	930	930	925
FUNNEL VIS s/l	56	55	58
W.L. cm/ FILCK			
PH			
PVT	39.00	38.60	41.10

MUD MATERIALS USED

TYPE	QTY	UNITS
CARRO-MUL	1	BBL
INVERT	10	M3

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1673.00	19.00	139.2
1721.00	17.70	140.3
1778.00	18.00	140.8

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1640.00	1813.00	D	30	8

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
1340	152.0	118	152.0	

REDUCED PUMP SPEED

3970 @ 57 @ 1774

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW
0.00			

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00	930	840	1700
	2		
HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00	930	850	1590

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	380

MACP 6415

MAX HOOKLOAD 54

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1600	4.00	2	DRILL-1640- 1697
1600	1615	0.25	7	RIG SERVICE-functioned annular 20 secs closed 20 open
1615	2215	6.00	2	DRILL-1697m-1813m
2215	2400	1.75	10	DEV. SURVEY time
2400				

Derrick inspection complete, everything in good condition, done by Mik

Notes: functioned annular,20 secs closed 20 open.

functioned crown saver and visually inspected brakes

DRILLING CREW PAYROLL DATA

WELL NAME & NO		YEAR	MONTH	DAY
ANADARKO NETLA A-68		2002	3	6
OPERATOR	CONTRACTOR			
ANADARKO CANADA ENERGY	AKITA DRILLING LTD			
RIG MANAGER		RIG NO		
TONY IRWIN		55		
PROVINCE	CAMP [X] YES [ ] NO	RIG SAFETY DAYS		
N.W.T.		2147		

EVENING TOUR — FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		KEVIN BERGSON	12.00		KB
DERRICK HAND		TIM PREBOY	12.00		TP
MOTOR HAND		ANDY ALBERT	12.00		AA
FLOOR HAND		JIM NEMETH	12.00		JN
FLOOR HAND		PETER MANWART	12.00		PM
LEASE HAND		DARREN HAZENBERG	12.00		DH

RATE SCHEDULE — REGULAR — REPAIR — X — INVERT

CREW SAFETY DAYS: 16

DAY TOUR — FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DAVE RYAN	12.00		DR
WELL SITE CORD		LOUIS SIMONKA	12.00		LS
DERRICK HAND		MIKE BARANIUK	12.00		MB
MOTOR HAND		Graeme McWha	12.00		GM
FLOOR HAND		JOHN PAUL	12.00		JP
FLOOR HAND		MICHAEL SAM	12.00		MS
LEASE HAND		MOISE PUNCH	12.00		MP

RATE SCHEDULE — REGULAR — REPAIR — X — INVERT

CREW SAFETY DAYS

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	TONY IRWIN

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
JE	TI
	TI
JE	TI
JE	TI
JE	TI
JE	JE
TI	

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C A O D C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

	TI

YEAR 2002 | MONTH 3 | DAY 5

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 102 | BOILER 198

WEATHER: TEMPERATURE -20 | CONDITIONS LITE WIND | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI W	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5X H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | NO

TOP	115	TOP	120
MIDDLE	115	MIDDLE	120
BOTTOM	80	BOTTOM	115

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	R S SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		8.00			0.75	2.25	0.25			0.75																12.00
DAY		2.00				7.50	0.25			0.50										1.75							12.00
EVE																											
TOTAL		10.00			0.75	9.75	0.50			1.25										1.75							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0 25 m
1	DIRECTION	171	38 95 m
1	X O	165	0 94 m
3	D C	165	28 65 m
1	JAR	160	9 84 m
1	D C	165	9 56 m
1	X O	162	0 22 m
22	H W D P	101	201 57 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
59	DRILLPIPE	STANDS	1135.22m
1	DRILLPIPE	SINGLES	9.65 m
	KELLY DOWN		12.25 m
	TOTAL		1447.10 m
	F D.C.		20 1000 daN
	WT. OF STRING		40 1000 daN

DRILLERS SIGNATURE KEVIN BERGSON

BIT RECORD

BIT NO.	1	2
SIZE (mm)	216.0	216.0
IADC CODE		
MFG.	DOWDCO	HUGHES
Type	TM-266	GT-03
SERIAL NO	D-1266	ROODL
JETS (mm)	11. 11. 11.	
DEPTH IN (m)	560.00	1447.00
DEPTH OUT (m)	1427.00	
TOTAL METER	867.00	
TOTAL HOURS	51.75	
INNER		
OUTER		
DULL		
LOCATION		
BEARINGS		
GAGE(mm		
OTHER		
REASON		
R.O.P.	16.75	
DRAG dan	3 up 3 d	
TORQUE		
FILL m		

MUD RECORD

WATER BASED | | OIL BASED | X

TIME	330	700	830
DENSITY kg/m3	915	920	920
FUNNEL VIS s/l	58	59	56
W.L cm/ FILCK			
PH			
	33.60	34.90	33.80

MUD MATERIALS USED

TYPE	QTY	UNITS
INVERT	5	M3
CALCIUM CHLORID	30	SX
CAL-CARB	6	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1306.00	14.80	166.7
1354.00	15.80	155.7

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1321 00	1447.00	D		3

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
12250	152.0	118	152.0	

REDUCED PUMP SPEED

3660 @ 57 @ 1353

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW
0.00			

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	920		1670
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	920		1585

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	370

MACP 6470

MAX HOOKLOAD 42

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	800	8.00	2	DRILL F/1321m-1447m
800	815	0.25	7	RIG SERVICE FUNCTION REMOTE CHOKE 42 secs
815	900	0.75	5	circulate bottoms up
900	945	0.75	10	DEV. SURVEY time
945	1200	2.25	6	TRIPS P.O.O.H FLOW CHECK @1447m,1350m

Notes: CHECK CROWN SAVER AND BRAKES

BLEW BOILER DOWN 3 TIMES

MJ=3079 TMJ=133760 LL=1350

DAY SHIFT

LICENCE NO. :

WELL NAME AND NO. : **ANADARKO NETLA A-68**

OPERATOR. : **ANADARKO CANADA ENERGY**

CONTRACTOR : **AKITA DRILLING LTD.**

SURFACE LOCATION. : **60:47:07.40 N 122:41:38.90 E**

UNIQUE I'D. :

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

JIM ELLIOTT

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

TONY IRWIN

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

Opr.	R.M.
JE	TI
	TI
JE	TI
JE	TI
JE	TI
JE	JE
TI	
TI	

YEAR 2002 | MONTH 3 | DAY 5

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 102 | BOILER 198

WEATHER: TEMPERATURE -20 | CONDITIONS LITE WIND | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC: work with invert

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102	4 FH	230	EMSCO	F800	229
102	41.64	HEVI WG	65	102	4 FH	30	EMSCO	F800	229
166	89.00	DC	76	165	4.5 X.H	18			

SHALE SHAKER(S)

NO. | TYPE DFTS | TYPE

CHANGE SCREENS | YES | | NO

TOP	115	TOP	120
MIDDLE	115	MIDDLE	120
BOTTOM	80	BOTTOM	115

RENTALS / SERVICES

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1 RIGUP & TEARDOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRLG LINE	10 DEV. SURVEY	11 WIRELINE LOGS	12 RUN CSG. & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIRECTIONAL WORK	21 SAFETY MEETING	22	23	24	25	26	TOTAL
OPER.																											
MORN		8.00			0.75	2.25	0.25			0.75																	
DAY		2.00				7.50	0.25			0.50										1.75							12.00
EVE																											12.00
TOTAL		10.00			0.75	9.75	0.50			1.25										1.75							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.r.m	0.25 m
1	DIRECTION	171	38.95 m
1	X O	165	0.94 m
3	D C	165	28.65 m
1	JAR	160	9.84 m
1	D C	165	9.56 m
1	X O	162	0.22 m
22	H W D P	101	201.57 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
61	DRILLPIPE	STANDS	1173.83 m
	DRILLPIPE	SINGLES	m
KELLY DOWN			12.25 m
TOTAL			1476.06 m
W O.D.C.			20 1000 daN
WT. OF STRING			43 1000 daN

BIT RECORD

BIT NO.	2
SIZE (mm)	216.0
IADC CODE	
MFG.	HUGHES
Type	GT-03
SERIAL NO.	ROODL
JETS (mm)	11. 11. 11.
DEPTH IN (m)	1447.00
DEPTH OUT (m)	1476.00
TOTAL METER	29.00
TOTAL HOURS	2.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.
								14.50

DRAG daN 3 up 2 dow

TORQUE 371

FILL m

DRILLERS SIGNATURE | DAVE RYAN

MUD RECORD

	WATER BASED		OIL BASED X	
TIME			2130	2400
DENSITY kg/m3			925	930
FUNNEL VIS s/l			58	60
W.L. cm/ FILCK				
PH				
p.v.t.			29.60	35.80

MUD MATERIALS USED

TYPE	QTY	UNITS
CAL CARB 325	25	SX
CAL CARB 'O'	1	SX
CARBO GEL	1	SX
INVERT	10	M3

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1460.00	15.60	141

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1447.00	1476.00	D	35	7

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	SPM	PUMP NO. 2 LINER(mm)	SPM
11800	152.0	118	152.0	

REDUCED PUMP SPEED

3640 @ 58 @ 1447

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW
0.00			

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00			

HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00			

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	375

MACP 6525

MAX HOOKLOAD 49

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1500	3.00	6	TRIPS-POOH-850- surface flowcheck 560m, out of hole·
1500	1630	1.50	20	DIR. WORK- change bit, change motor angle
1630	1800	1.50	6	TRIPS-trip into 590 metres
1800	1815	0.25	20	DIR. WORK-kelly up test mwd pulse
1815	1830	0.25	7	RIG SERVICE-change kelly stripping rubber
1830	2130	3.00	6	TRIPS R.I.H fill pipe @ 900m
2130	2330	2.00	2	DRILL F/1447m-1476m
2330	2400	0.50	10	DEV. SURVEY time
2400				

Notes: functioned blind rams 7 secs closed 7 secs open

functioned crown saver and visuallly inspected brakes

EXTRA DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR. : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	TONY IRWIN

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

YEAR 2002 | MONTH 3 | DAY 5

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS		YES / NO
TOP		TOP
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN																											
DAY																											
EVE																											
TOTAL																											

NO. DRILLING ASSEMBLY (AT END OF TOUR)

BIT/ MILLS	O.D.mm	m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
DRILLPIPE	STANDS	m
DRILLPIPE	SINGLES	m
KELLY DOWN		m
TOTAL		m
W[illegible] D.C.		1000 dan
WT. OF STRING		1000 dan

DRILLERS SIGNATURE

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
Type			
SERIAL NO.			
JETS (mm)			
DEPTH IN (m)			
DEPTH OUT (m)			
TOTAL METER			
TOTAL HOURS			
INNER			
OUTER			
DULL			
LOCATION			
BEARINGS			
GAGE(mm			
OTHER			
REASON			
R.O.P.			
DRAG dan			
TORQUE			
FILL m			

MUD RECORD

WATER BASED [ ] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DRILLING CREW PAYROLL DATA

WELL NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	3	5

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD

RIG MANAGER	RIG NO
TONY IRWIN	55

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	[X] YES [ ] NO	2146

EVENING TOUR — FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		KEVIN BERGSON	12.00		KB
DERRICK HAND		TIM PREBOY	12.00		TP
MOTOR HAND		ANDY ALBERT	12.00		AA
FLOOR HAND		JIM NEMETH	12.00		JN
FLOOR HAND		PETER MANWART	12.00		PM
LEASE HAND		DARREN HAZENBERG	12.00		DH

RATE SCHEDULE	REGULAR	REPAIR	X	INVERT

CREW SAFETY DAYS: 15

DAY TOUR — FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DAVE RYAN	12.00		DR
WELL SITE CORD		LOUIS SIMONKA	12.00		LS
DERRICK HAND		MIKE BARANIUK	12.00		MB
MOTOR HAND		Graeme McWha	12.00		GM
FLOOR HAND		JOHN PAUL	12.00	JP	
FLOOR HAND		MICHAEL SAM	12.00		MS
LEASE HAND		MOISE PUNCH	12.00		MP

RATE SCHEDULE	REGULAR	REPAIR	X	INVERT

CREW SAFETY DAYS: 12

EVENING SHIFT

LICENCE NO. :

WELL NAME AND NO. : **ANADARKO NETLA A-68**

OPERATOR. : **ANADARKO CANADA ENERGY**

CONTRACTOR: **AKITA DRILLING LTD.**

SURFACE LOCATION. : **60:47:07.40 N 122:41:38.90 E**

UNIQUE I.D. :

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

JIM ELLIOTT

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

TONY IRWIN

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Preformed	JE	TI
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		TI

YEAR 2002 | MONTH 3 | DAY 4

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 152 | BOILER 201

WEATHER: TEMPERATURE -21 | CONDITIONS WIND | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO. | TYPE | TYPE

CHANGE SCREENS | YES | x | NO

TOP	115	TOP	120
MIDDLE	115	MIDDLE	120
BOTTOM	80	BOTTOM	115

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	R/DUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP/D/OP	TEST BOP	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		10 25					0.25			1 50																	
DAY		10.25					0.25			1 50																	12.00
EVE																											12.00
TOTAL		20.50					0.50			3 00																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ M/LLS	O.D.mm	0 25
1	DIRECTION	171	38.95
1	X O	165	0 94
3	D C	165	28 65
1	JAR	160	9 84
1	D C	165	9.56
1	X O	162	0 22
22	H W D P	101	201 57
44	D'RILLPIPE	STANDS	846.08
	D'RILLPIPE	SINGLES	
	KELLY DOWN		3.94
	TOTAL		1140.00
	NO. OF D.C.		20
	WT. OF STRING		37

BIT RECORD

		INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P
BIT NO	1									
SIZE (mm)	216 0									
IADC CODE										
MFG	DOWDCO									
Type	TM 266									
SERIAL NO	D-1266									
JETS (mm)										
DEPTH IN (m)	560 00									
DEPTH OUT (m)	1140.00									
TOTAL METER	580 00									173
TOTAL HOURS	33.50									
1000 dan	DRAG dan	1 UP 1 DOW								
1000 dan	TORQUE	325								
1000 dan	FILL m									

DRILLERS SIGNATURE | KEVIN BERGSON

MUD RECORD

	WATER BASED		OIL BASED X	
TIME	330	700	1030	
DENSITY kg/m3	915	915	910	
FUNNEL VIS s/l	56	57	58	
W.L. cm/ FILCK				
PH				
P.V.T.	36.00	32.50	35 60	

MUD MATERIALS USED

TYPE	QTY	UNITS
floordry	3	SX
CAL-CARB	1	SX
INVERT	5	M3

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
998.00	3.90	107.4
1056.00	6.00	105.8
1114.17	9.50	123.1

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1003 00	1140 00	D	110	4

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	SPM	PUMP NO. 2 LINER(mm)	SPM
11050	152.0	118	152.0	

REDUCED PUMP SPEED

3420 @ 58 @ 1137

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW
0.00			

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00	910	850	1685
	2		
HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00	910	850	1585

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	365

MACP

MAX HOOKLOAD 39

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	715	7.25	2	DRILL f/-1003m- 1090
715	730	0.25	7	RIG SERVICE FUNCTION ANNULAR 12 secs close
730	900	1.50	10	DEV. SURVEY time
900	1200	3.00	2	DRILL-1090-1140
1200				

LEL MONITOR CHECK OK-GM

Notes: check crown saver and brakes SERVICE AND INSPECT FIRE EXTINGUISHER
VISUALY INSPECTED DERRICK BELTS, LANDYARDS, CHECK SCOTT AIR PACKS,
BLEW BOILER DOWN 3 TIMES TMJ=133103 MJ=2422 LL=1350
KOOMEY 30

DAY SHIFT

LICENCE NO. :

WELL NAME AND NO. : **ANADARKO NETLA A-68**

OPERATOR : **ANADARKO CANADA ENERGY**

CONTRACTOR : **AKITA DRILLING LTD.**

SURFACE LOCATION : **60:47:07.40 N 122:41:38.90 E**

UNIQUE I.D. :

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

JIM ELLIOTT

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

TONY IRWIN

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
JE	TI
JE	TI
JE	TI
JE	TI
JE	TI
JE	TI

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

TI

YEAR 2002 | MONTH 3 | DAY 4

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 152 | BOILER 201

WEATHER: TEMPERATURE -21 | CONDITIONS WIND | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO.	TYPE	TYPE

CHANGE SCREENS | YES | x | NO

TOP	115	TOP	120
MIDDLE	115	MIDDLE	120
BOTTOM	80	BOTTOM	115

RENTALS / SERVICES

	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		10.25					0.25			1.50																	12.00
DAY		10.25					0.25			1.50																	12.00
EVE																											
TOTAL		20.50					0.50			3.00																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
1	DIRECTION	171	38.95 m
1	X O	165	0.94 m
3	D C	165	28.65 m
1	JAR	160	9.84 m
1	D C	165	9.56 m
1	X O	162	0.22 m
22	H W D P	101	201.57 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
44	DRILLPIPE	STANDS	1019.45 m
	DRILLPIPE	SINGLES	9.66 m
	KELLY DOWN	12.25	m
	TOTAL	1331.34	m
	OF D.C.	20	1000 dan
	WT. OF STRING	40	1000 dan

DRILLERS SIGNATURE DAVE RYAN

BIT RECORD

BIT NO.	1
SIZE (mm)	216.0
IADC CODE	
MFG.	DOWDCO
Type	TM-266
SERIAL NO.	D-1266
JETS (mm)	
DEPTH IN (m)	560.00
DEPTH OUT (m)	1321.00
TOTAL METER	761.00
TOTAL HOURS	43.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.
								17.39

DRAG dan 1 up 1 dow

TORQUE 349

FILL m

MUD RECORD

WATER BASED		OIL BASED	X
TIME	1330	1830	2300
DENSITY kg/m3	910	910	915
FUNNEL VIS s/l	58	62	59
W.L. cm/ FILCK			
PH			
PVT	35.60	33.70	38.30

MUD MATERIALS USED

TYPE	QTY	UNITS
INVERT	21	M3
CALCIUM CHLORID	10	SX
CARBO-TROL	10	SX
LIME	5	SX
CAL CARB 'O'	2	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1142.00	10.90	141.9
1190.00	13.80	138.6
1219.00	14.60	148.9
1268.00	17.10	160

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT ON BIT
1140.00	1331.00	D		4

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
12150	152.0	119	152.0	

REDUCED PUMP SPEED

3580 @ 58 @ 1253

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00	910	840	1690
	2		
HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00	910	860	1540

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	375

MACP 6525

MAX HOOKLOAD 40

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	2215	10.25	2	DRILL-1140-1321m
2215	2230	0.25	7	RIG SERVICE-function lower pipe rams
2230	2400	1.50	10	DEV. SURVEY total time
2400				

Notes: function lowe r pipe rams, 6 secs close, 6 secs open

DRILLING CREW PAYROLL DATA

L NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	3	4

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD

RIG MANAGER	RIG NO
TONY IRWIN	55

PROVINCE	CAMP				RIG SAFETY DAYS
N.W.T.		X	YES		NO	2145

EVENING TOUR	FROM 0	TO 1200		INJURIES	
CREW	SOC. INS. NO.	NAME	HOURS	YES	NO
DRILLER		KEVIN BERGSON	12.00		KB
DERRICK HAND		TIM PREBOY	12.00		TP
MOTOR HAND		ANDY ALBERT	12.00		AA
FLOOR HAND		JIM NEMETH	12.00		JN
FLOOR HAND		PETER MANWART	12.00		PM
LEASE HAND		DARREN HAZENBERG	12.00		DH

RATE SCHEDULE	REGULAR	REPAIR	X	INVERT
	CREW SAFETY DAYS			
	14			

DAY TOUR	FROM 1200	TO 2400		INJURIES	
CREW	SOC. INS. NO.	NAME	HOURS	YES	NO
DRILLER		DAVE RYAN	12.00		DR
WELL SITE CORD		LOUIS SIMONKA	12.00		LS
DERRICK HAND		MIKE BARANIUK	12.00		MB
MOTOR HAND		Graeme McWha	12.00		GM
FLOOR HAND		JOHN PAUL	12.00		JP
FLOOR HAND		MICHAEL SAM	12.00		MS
LEASE HAND		MOISE PUNCH	12.00		MP

RATE SCHEDULE	REGULAR	REPAIR	X	INVERT
	CREW SAFETY DAYS			

EVENING SHIFT

LICENCE NO. :

WELL NAME AND NO. : ANADARKO NETLA A-68

OPERATOR : ANADARKO CANADA ENERGY

CONTRACTOR : AKITA DRILLING LTD.

SURFACE LOCATION : 60:47:07.40 N 122:41:38.90 E

UNIQUE I.D. :

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

JIM ELLIOTT

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

TONY IRWIN

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
JE	TI
JE	TI
JE	TI
JE	TI
JE	TI

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

TI

YEAR 2002 | MONTH 3 | DAY 3

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 200 | BOILER 240

WEATHER
TEMPERATURE -12
CONDITIONS SNOW
WIND DIRECTION
ROAD CONDITION ICE

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS	x YES	NO
TOP 115		TOP 120
MIDDLE 115		MIDDLE 115
BOTTOM 80		BOTTOM

RENTALS / SERVICES

	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		11.50			0.25		0.25																				12 00
DAY		10.25					0.25			1.50																	12 00
EVE																											
TOTAL		21.75			0.25		0.50			1.50																	24 00

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR)			BIT RECORD	
1	BIT/ MILLS	O.D.mm	0.25 m	BIT NO.	1
1	DIRECTION	171	38.95 m	SIZE (mm)	216.0
1	X O	165	0.94 m	IADC CODE	
3	D C	165	28.65 m	MFG.	DOWDCO
1	JAR	160	9.84 m	Type	TM-266
1	D C	165	9.56 m	SERIAL NO.	D-1266
1	X O	162	0.22 m	JETS (mm)	6 x 11
22	H W D P	101	201.57 m	DEPTH IN (m)	560.00
			m	DEPTH OUT (m)	
			m	TOTAL METER	241.00
			m	TOTAL HOURS	12.50
26	DRILLPIPE	STANDS	499.66 m		
	DRILLPIPE	SINGLES	m		
	KELLY DOWN	11.11	m		
	TOTAL	800.75	m		
	OF D.C.	20	1000 dan	DRAG dan	1 UP 1 DOW
	WT. OF STRING	29	1000 dan	TORQUE	418
				FILL m	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(in.)	OTHER	REASON	R.O.P.
								1938

DRILLERS SIGNATURE KEVIN BERGSON

MUD RECORD

WATER BASED		OIL BASED	X
TIME	330	700	900
DENSITY kg/m3	910	910	910
FUNNEL VIS s/l	62	62	60
W.L. cm/ FILCK			
PH			
p.v.t	32.00	30.70	28.50

MUD MATERIALS USED

TYPE	QTY	UNITS
floordry	2	SX
BASE OIL	5	M3
INVERT	10	M3

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
594.00	0.03	246.1
690.00	0.06	251
738.90	1.10	1
767.00	2.00	14.3

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
580 00	801 00	D	37	2

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9310	152.0	110	152.0	

REDUCED PUMP SPEED

3240 @ 58 @ 790

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW
0.00			

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
3.00	910	850	1700
12.00	910	850	1650

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	400

MACP 6470

MAX HOOKLOAD 30

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	515	5.25	2	DRILL F/580m-705m
515	530	0.25	5	COND MUD & CIRC FLOW LINE CLEAN
530	545	0.25	7	RIG SERVICE FUNCTION REMOTE PASON 37 secs
545	1200	6.25	2	DRILL F/705-753,slide 753-757,R-757- 801
				LEL MONITOR CHECK OK/ GM

Notes: CHECK CROWN SAVER AND BRAKES

m|=1839 tm|=132520 II=1350

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR. : ANADARKO CANADA ENERGY		CONTRACTOR : AKITA DRILLING LTD.	
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		TONY IRWIN	SAFETY TOPIC

Opr.	R.M.	
JE	TI	(1) Daily Walk Around Inspection
JE	TI	(2) Detailed Inspection-Weekly (Using Check List)
JE	TI	(3) H2S Signs Posted(If Required)
JE	TI	(4) Well License & Slick Diagram Posted
JE	TI	(5) Flare Lines Staked
JE		(6) BOP Drills Preformed
JE	TI	(7) Visually Inspect BOP's - Flarelines & Degasser Lines
		(1) Rig Site Health and Safety Meeting (one/crew/month)
		(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)
		(3) Mast Inspection Before Raising or Lowering
	TI	(4) Crown Saver Checked
		(5) Motor Kills Checked

YEAR 2002 | MONTH 3 | DAY 3

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 200 | BOILER 240

WEATHER: TEMPERATURE -12 | CONDITIONS SNOW | WIND DIRECTION | ROAD CONDITION ICE

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS	x YES	NO
TOP 115	TOP 120	
MIDDLE 115	MIDDLE 115	
BOTTOM 80	BOTTOM	

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
LOADER			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		11.50			0.25		0.25																				12.00
DAY		10.25					0.25			1.50																	12.00
EVE																											
TOTAL		21.75			0.25		0.50			1 50																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0 25 m
1	DIRECTION	171	38 95 m
1	X O	165	0 94 m
3	D C	165	28.65 m
1	JAR	160	9 84 m
1	D C	165	9.56 m
1	X O	162	0 22 m
22	H W D P	101	201 57 m
			m
			m
			m
			m
			m
			m
			m
			m
36	DRILLPIPE	STANDS	692.08 m
1	DRILLPIPE	SINGLES	9.59 m
KELLY DOWN		12.25	m
TOTAL		1003.90	m
F D.C.		20	1000 dan
WT. OF STRING		29	1000 dan

DRILLERS SIGNATURE DAVE RYAN

BIT RECORD

BIT NO.	1
SIZE (mm)	216.0
IADC CODE	
MFG.	DOWDCO
Type	TM-266
SERIAL NO.	D-1266
JETS (mm)	
DEPTH IN (m)	560.00
DEPTH OUT (m)	1003.00
TOTAL METER	443.00
TOTAL HOURS	23 25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.
								19.05

DRAG dan	1 up 1 dow	
TORQUE	398	
FILL m	0.00	

MUD RECORD

WATER BASED		OIL BASED	X
TIME	1400	1730	2300
DENSITY kg/m3	910	910	910
FUNNEL VIS s/l	60	58	55
W.L. cm/ FILCK			
PH			
PVT		40.50	34.10

MUD MATERIALS USED

TYPE	QTY	UNITS
CARBO-MUL	1	BBL
CARBO-TEC-L	1	BBL
CAL CARB 'O'	1	SX
LIME	5	SX
CALCIUM CHLORID	20	SX
INVERT	10	M3

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
786.90	2.50	14
796.00	2.50	5.5
806.00	2.40	.2
844.00	1.30	354.1
892.00	1.00	61.4

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
801 00	1003 00	D	35	5

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
11030	152.0		152.0	

REDUCED PUMP SPEED

3510 @ 58 @ 887

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00			1685
	2		
HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00			1580

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	405

MACP 6525

MAX HOOKLOAD 35

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1400	2.00	2	DRILL- S-801-806,R806-811,S-811-816,R816-821,S-821-826 ,
1400	1430	0.50	2	DRILL R-626-830,S830-835 R835-840,
1430	1445	0.25	7	RIG SERVICE
1445	1545	1.00	2	DRILL-S840-846,R846-849,S849-857,R857-859,S849-857
1545	1730	1.75	2	DRILL-R857-869S-869-875,R875-878,S878-885 R885-888
1730	2230	5.00	2	DRILL f/888m-1003m
2230	2400	1.50	10	DEV. SURVEY time
2400				

Notes: functioned crown saver and visually inspected brakes

functioned upper pipe rams,6 closed 6 open

EXTRA DAY SHIFT

LICENCE NO. :

WELL NAME AND NO. : ANADARKO NETLA A-68

OPERATOR. : ANADARKO CANADA ENERGY

CONTRACTOR : AKITA DRILLING LTD.

SURFACE LOCATION : 60:47:07.40 N 122:41:38.90 E

UNIQUE I.D. :

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

JIM ELLIOTT

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

TONY IRWIN

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(if Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 3

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO. | TYPE | TYPE

CHANGE SCREENS | YES | NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIRRIG	CUT OFF DRLG LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN.																											
DAY																											
EVE																											
TOTAL																											

NO. | DRILLING ASSEMBLY (AT END OF TOUR)

BIT/ MILLS | O.D.mm

DRILLPIPE STANDS

DRILLPIPE SINGLES

KELLY DOWN

TOTAL

F D.C.

WT. OF STRING

DRILLERS SIGNATURE

BIT RECORD

	BIT NO.	SIZE (mm)	IADC CODE	MFG.	Type	SERIAL NO.	JETS (mm)	DEPTH IN (m)	DEPTH OUT (m)	TOTAL METER	TOTAL HOURS	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.
m																				
m																				
m																				

DRILLING CREW PAYROLL DATA

NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	3	3

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD

RIG MANAGER	RIG NO
TONY IRWIN	55

PROVINCE	CAMP	X	YES	NO	RIG SAFETY DAYS
N.W.T					2144

EVENING TOUR — FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		KEVIN BERGSON	12.00		KB
DERRICK HAND		TIM PREBOY	12.00		TP
MOTOR HAND		ANDY ALBERT	12.00		AA
FLOOR HAND		JIM NEMETH	12.00		JN
FLOOR HAND		PETER MANWART	12.00		PM
LEASE HAND		DARREN HAZENBERG	12.00		DH

RATE SCHEDULE	REGULAR	REPAIR	X	INVERT

CREW SAFETY DAYS
13

DAY TOUR — FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DAVE RYAN	12.00		DR
WELL SITE CORD		LOUIS SIMONKA	12.00		LS
DERRICK HAND		MIKE BARANIUK	12.00		MB
MOTOR HAND		Graeme McWha	12.00		GM
FLOOR HAND		JOHN PAUL	12.00		JP
FLOOR HAND		MICHAEL SAM	12.00		MS
LEASE HAND		MOISE PUNCH	12.00		MP

RATE SCHEDULE	REGULAR	REPAIR	X	INVERT

CREW SAFETY DAYS
10

EVENING SHIFT

LICENCE NO. :

WELL NAME AND NO. : **ANADARKO NETLA A-68**

OPERATOR. : **ANADARKO CANADA ENERGY**

CONTRACTOR : **AKITA DRILLING LTD.**

SURFACE LOCATION. : **60:47:07.40 N 122:41:38.90 E**

UNIQUE I.D. :

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

JIM ELLIOTT

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

TONY IRWIN

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)	JE	
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Preformed	JE	TI
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C A O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 2

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 110 | BOILER 136

WEATHER: TEMPERATURE -12 | CONDITIONS | WIND DIRECTION | ROAD CONDITION SNOW

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO. | TYPE | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | TOP 120

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					2.00	3.50		5.00							1.00									0.50			12.00
DAY		1.00			0.75	4.00	0.25								1.00					2.50	0.75	1.75					12.00
EVE																											
TOTAL		1.00			2.75	7.50	0.25	5.00							2.00					2.50	0.75	1.75		0.50			24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO. | BIT/ MILLS | O.D.mm

DRILLPIPE | STANDS

DRILLPIPE | SINGLES

KELLY DOWN

TOTAL

WT. OF D.C.

WT. OF STRING

DRILLERS SIGNATURE | KEVIN BERGSON

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | Type | SERIAL NO. | JETS (mm) | DEPTH IN (m) | DEPTH OUT (m) | TOTAL METER | TOTAL HOURS | INNER | OUTER | DULL | LOCATION | BEARINGS | GAGE/mm | OTHER | REASON | R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME

DENSITY kg/m3

FUNNEL VIS s/l

W.L. cm/ FILCK

PH

PVT 41.30

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)

PUMP NO. 1		PUMP NO. 2	
LINER(mm)	SPM	LINER(mm)	SPM
152.0		152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

2

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	370

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	500	5.00	8	REPAIR RIG WORK ON 4" STAND PIPE VALVE
500	600	1.00	15	TEST B.O.P. TEST STAND PIPE KILL LINE MUD LINE / OK
600	630	0.50	24	BLOW KELLY AND MUD LINES FREE OF WATER
630	800	1.50	6	TRIPS RIH W/ DC TO JACK RIG
800	830	0.50	6	TRIPS- RIH-545 METRES TAG CEMENT
830	1030	2.00	5	COND MUD & CIRC -CHANGE HOLE FROM WATER TO INVERT
1030	1200	1.50	6	TRIPS- LAY DOWN 28 JOINTS DRILL PIPE
1200				
				JACKED RIG TO LEVEL WHILE SWITCHING TO INVERT

Notes: check crown saver and brakes

blew boiler down 3 times

mj=1117 tmj=131798 lj=131798 - changed out lower kelly cock- add

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR : ANADARKO CANADA ENERGY		CONTRACTOR : AKITA DRILLING LTD.	
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		TONY IRWIN	SAFETY TOPIC: BOP FIREDRILL

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)	JE	
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Slick Diagram Posted	JE	TI
(5) Flare Lines Staked	JE	TI
(6) BOP Drills Preformed	JE	TI
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A. O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		

YEAR 2002 | MONTH 3 | DAY 2

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 110 | BOILER 136

WEATHER: TEMPERATURE -12 | CONDITIONS | WIND DIRECTION | ROAD CONDITION SNOW

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS		YES / NO
TOP	120	TOP 120
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	ROUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					2.00	3.50		5.00							1.00					0.50							12 00
DAY		1.00			0.75	4.00	0.25								1.00					2 50	0.75	1.75					12.00
EVE																											
TOTAL		1.00			2.75	7.50	0.25	5.00							2.00					2 50	0.75	1.75		0.50			24 00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

1	BIT/ MILLS	O.D.mm	0.25 m
1	DIRECTION	159	38.95 m
1	X O	165	0.94 m
3	D C	165	28.65 m
1	JAR	160	9.84 m
1	D C	165	9.56 m
1	X O	162	0.22 m
22	H W D P	101	201.57 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
14	DRILLPIPE	STANDS	268.94 m
1	DRILLPIPE	SINGLES	9.59 m
KELLY DOWN			12.25 m
TOTAL			580.76 m
F.D.C.			20 1000 daN
WT. OF STRING			27 1000 daN

BIT RECORD

BIT NO.	1
SIZE (mm)	216.0
IADC CODE	
MFG.	DOWDCO
Type	TM-266
SERIAL NO.	D-1266
JETS (mm)	6 x 11.1
DEPTH IN (m)	560.00
DEPTH OUT (m)	580.00
TOTAL METER	20.00
TOTAL HOURS	1.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.
								20.00

DRAG daN	0
TORQUE	324
FILL m	0.00

DRILLERS SIGNATURE: DAVE RYAN

MUD RECORD

	WATER BASED		OIL BASED X	
TIME		2200	2400	
DENSITY kg/m3		910	915	
FUNNEL VIS s/l		65	62	
W.L cm/ FILCK				
PH				
P.V.T.		37.80	1.10	

MUD MATERIALS USED

TYPE	QTY	UNITS
INVERT	58	M3
CARBO-GEL	5	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
565 00	0.03	196.5

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
560 00	565 00	D	37	2

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9300	152.0	110	152 0	

REDUCED PUMP SPEED

3200	@	57	@

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW
0.00			

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
6.00			

HOURS	INTAKE	OVERFLOW	UNDERFLOW
0.00			

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	400

MACP	6470
MAX HOOKLOAD	28

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1230	0.50	6	TRIPS-RACKED BACK 9 STANDS DRILL PIPE , 2 STANDS OF COLLARS
1230	1245	0.25	21	SAFETY MTG. -BOP FIRE DRILL WHILE TRIPPING
1245	1330	0.75	6	TRIPS LAY DOWN FIVE COLLARS
1330	1345	0.25	21	SAFETY MTG.- RIG CREW WITH MUD MOTOR HAND MWD
1345	1530	1.75	20	DIR. WORK- pick up mud motor ,monels,jars and jewellery
1530	1645	1.25	6	TRIPS-RIH
1645	1700	0.25	7	RIG SERVICE -FUNCTION MOTOR KILLS- 4 SECS
1700	1745	0.75	20	DIR. WORK-KELLY UP TO TEST MWD TOOL
1745	1915	1.50	6	TRIPS-RIH-539.69 METRES
1915	2000	0.75	5	DRILL-kellu up to drill out shoe
2000	2015	0.25	21	SAFETY MTG. B.O.P
2015	2200	1.75	22	DRILL OUT FLOAT, CEMENT AND SHOE PLUS 5m NEW HOLE 560-565m
2200	2300	1.00	15	TEST , LEAK OFF, EQUIVELANT MUD WT 2100
2300	2400	1.00	2	DRILL F/ 565m-580m
2400				

Notes: CONDUCTED FIRE DRILL WHILE TRIPPING 45 SECS TO CLOSE IN WELL

function upper and lower pipe rams 4 secs each

DRILLING CREW PAYROLL DATA

NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	3	2

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD.

RIG MANAGER	RIG NO
TONY IRWIN	55

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES NO	12

EVENING TOUR — FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		KEVIN BERGSON	12.00		KB
DERRICK HAND		TIM PREBOY	12.00		TP
MOTOR HAND		ANDY ALBERT	12.00		AA
FLOOR HAND		JIM NEMETH	12.00		JN
FLOOR HAND		PETER MANWART	12.00		PM
LEASE HAND		DARREN HAZENBERG	12.00		DH

RATE SCHEDULE		REGULAR		REPAIR	X	INVERT
		CREW SAFETY DAYS				
		12				

DAY TOUR — FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DAVE RYAN	12.00		DR
WELL SITE CORD		LOUIS SIMONKA	12.00		LS
DERRICK HAND		MIKE BARANIUK	12.00		MB
MOTOR HAND		Graeme McWha	12.00		GM
FLOOR HAND		JOHN PAUL	12.00		JP
FLOOR HAND		MICHAEL SAM	12.00		MS
LEASE HAND		MOISE PUNCH	12.00		MP

RATE SCHEDULE		REGULAR		REPAIR	X	INVERT
		CREW SAFETY DAYS				
		9				

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	TONY IRWIN

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted		TI
(5) Flare Lines Staked		TI
(6) BOP Drills Preformed		TI
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C A O D C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		TI

YEAR 2002 | MONTH 3 | DAY 1

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 125 | BOILER 175

WEATHER: TEMPERATURE -27 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO.	TYPE	TYPE

CHANGE SCREENS | YES | NO

TOP	120	TOP	120
MIDDLE		MIDDLE	
BOTTOM		BOTTOM	

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	handl tools					
MORN								12.00																			12 00
DAY								3.00							8.25							0 75					12 00
EVE																											
TOTAL								15.00							8.25							0.75					24 00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR : ANADARKO CANADA ENERGY		CONTRACTOR : AKITA DRILLING LTD.	
SURFACE LOCATION : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		TONY IRWIN	SAFETY TOPIC: pressure testing

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	TI
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	TI
(4) Well License & Stick Diagram Posted		TI
(5) Flare Lines Staked		TI
(6) BOP Drills Performed		TI
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		TI
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		TI
(5) Motor Kills Checked		TI

YEAR 2002 | MONTH 3 | DAY 1

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 125 | BOILER 175

WEATHER: TEMPERATURE -27 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO. | TYPE | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B O P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	handl tools					
MORN								12.00																			12.00
DAY								3.00							8.25							0.75					12 00
EVE																											
TOTAL								15.00							8.25							0.75					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO. | BIT/ MILLS | O.D.mm

DRILLPIPE | STANDS

DRILLPIPE | SINGLES

KELLY DOWN

TOTAL

WT. OF D.C.

WT. OF STRING

DRILLERS SIGNATURE | DAVE RYAN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG | Type | SERIAL NO | JETS (mm) | DEPTH IN (m) | DEPTH OUT (m) | TOTAL METER | TOTAL HOURS | INNER | OUTER | DULL | LOCATION | BEARINGS | GAGE(mm | OTHER | REASON | ROP

1000 daN DRAG daN

1000 daN TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME

DENSITY kg/m3

FUNNEL VIS s/l

W.L. cm/ FILCK

PH

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)

PUMP NO. 1		PUMP NO. 2	
LINER(mm)	SPM	LINER(mm)	SPM

REDUCED PUMP SPEED @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	10

MACP | 0

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1400	2.00	8	NIPPLE UP B.O.P.
1400	1845	4.75	15	TEST B.O.P.-test upper and lower pipe rams
1845	1930	0.75	22	HANDLE TOOLS; RETRIEVE TEST PLUG. LAND WEAR BUSHING
1930	2300	3.50	15	TEST LOWER & UPPER KELLYCOCK, KILL LINES,
2300	2400	1.00	8	REPAIR RIG -REBUID 4"& 2" STAND PIPE VALVES
2400				

Notes: flare stack lighter tested ok

function test,recharge time conducted on bops

DRILLING CREW PAYROLL DATA

WELL NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	3	1

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD

RIG MANAGER	RIG NO
TONY IRWIN	55

PROVINCE	CAMP				RIG SAFETY DAYS
N.W.T.		X	YES		NO	11

EVENING TOUR — FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		KEVIN BERGSON	12.00		KB
DERRICK HAND		TIM PREBOY	12.00		TP
MOTOR HAND		ANDY ALBERT	12.00		AA
FLOOR HAND		JIM NEMETH	12.00		JN
FLOOR HAND		PETER MANWART	12.00		PM
LEASE HAND		DARREN HAZENBERG	12.00		DH

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT

CREW SAFETY DAYS: 11

DAY TOUR — FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DAVE RYAN	12.00		DR
WELL SITE CORD		LOUIS SIMONKA	12.00		LS
DERRICK HAND		MIKE BARANIUK	12.00		MB
MOTOR HAND		Graeme McWha	12.00		GM
FLOOR HAND		JOHN PAUL	12.00		JP
FLOOR HAND		MICHAEL SAM	12.00		MS
LEASE HAND		MOISE PUNCH	12.00		MP

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT

CREW SAFETY DAYS

EVENING SHIFT

LICENCE NO. :	
WELL NAME AND NO. :	ANADARKO NETLA A-68
OPERATOR. :	ANADARKO CANADA ENERGY
CONTRACTOR :	AKITA DRILLING LTD.
SURFACE LOCATION. :	60:47:07.40 N 122:41:38.90 E
UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	JIM ELLIOTT
CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	GARY FORTH

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted	JE	
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 28

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -28 | CONDITIONS | WIND DIRECTION | ROAD CONDITION SLIPPERY

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS		YES / NO
TOP	120	TOP 120
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN														12.00													12.00
DAY														2.00	10.00												12.00
EVE																											
TOTAL														14.00	10.00												24.00

BIT RECORD

NO.	BIT/ MILLS	O.D.mm		BIT NO.	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.
			m	SIZE (mm)									
			m	IADC CODE									
			m	MFG.									
			m	Type									
			m	SERIAL NO.									
			m	JETS (mm)									
			m	DEPTH IN (m)									
			m	DEPTH OUT (m)									
			m	TOTAL METER									
			m	TOTAL HOURS									
	DRILLPIPE	STANDS	m										
	DRILLPIPE	SINGLES	m										
	KELLY DOWN		m										
	TOTAL		m										
	WT. OF D.C.		1000 dan	DRAG dan									
	WT. OF STRING		1000 dan	TORQUE									
				FILL m									

DRILLERS SIGNATURE | KEVIN BERGSON

MUD RECORD

WATER BASED | OIL BASED

TIME	
DENSITY kg/m3	
FUNNEL VIS s/l	
W.L cm/ FILCK	
PH	

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@		@

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	380

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	1200	12.00	14	NIPPLE UP B.O.P. ,HOOK UP MANIFOLD SHACK AND MANIFOLD LINES
1200				

Notes: BOILER BLOWN 3@ 15 SEC.

MJ. 1091 TOTAL MJ. 131772 L.L. 1350

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR. : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	GARY FORTH

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
JE	
JE	

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

YEAR 2002 | MONTH 2 | DAY 28

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -28 | CONDITIONS | WIND DIRECTION | ROAD CONDITION SLIPPERY

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS		YES / NO
TOP	120	TOP 120
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN														12.00													12.00
DAY														2.00	10.00												12.00
EVE																											
TOTAL														14.00	10.00												24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
BIT/ MILLS	O.D.mm		m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
DRILLPIPE	STANDS		m
DRILLPIPE	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.										
SIZE (mm)										
IADC CODE										
MFG.										
Type										
SERIAL NO.										
JETS (mm)										
DEPTH IN (m)										
DEPTH OUT (m)										
TOTAL METER										
TOTAL HOURS										
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.	

DRAG daN
TORQUE
FILL m

DRILLERS SIGNATURE DARRELL LAPLANTE

MUD RECORD

WATER BASED		OIL BASED	
TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)

PUMP NO. 1		PUMP NO. 2	
LINER(mm)	SPM	LINER(mm)	SPM
0.0		0.0	

REDUCED PUMP SPEED @ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	

MACP
MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1400	2.00	14	NIPPLE UP B.O.P.
1400	2400	10.00	15	TEST B.O.P. MANIFOLD

Notes:

DRILLING CREW PAYROLL DATA

WL AME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	2	28

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD.

RIG MANAGER	RIG NO
GARY FORTH	55

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T	[X] YES [ ] NO	10

EVENING TOUR FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		KEVIN BERGSON	8.00		KB
DERRICK HAND		TIM PREBOY	8.00		TP
MOTOR HAND		ANDY ALBERT	8.00		AA
FLOOR HAND		JIM NEMETH	8.00		JN
FLOOR HAND		PETER MANWART	8.00		PM
LEASE HAND		DARREN HAZENBERG	8.00		DH

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT

CREW SAFETY DAYS: 10

DAY TOUR FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DARRELL LAPLANTE	8.00		DL
DERRICK HAND		CLINTON GALLIFORD	8.00		CG
MOTOR HAND		JOHN WIPF	8.00		JW
FLOOR HAND		WYATT Boucher	8.00		WB
LEASE HAND		TOM STEWART	8.00		TS
DRILLER		DAVE RYAN	8.00		DR
WELL SITE CORD		LOUIS SIMONKA	8.00		LS
DERRICK HAND		MIKE BARANIUK	8.00		MB
MOTOR HAND		Graeme McWha	8.00		GM
FLOOR HAND		JOHN PAUL	8.00		JP
FLOOR HAND		MICHAEL SAM	8.00		MS
LEASE HAND		MOISE PUNCH	8.00		MP

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT

CREW SAFETY DAYS

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR. : ANADARKO CANADA ENERGY		CONTRACTOR : AKITA DRILLING LTD.	
SURFACE LOCATION : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		GARY FORTH	SAFETY TOPIC

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
JE	GF
JE	GF

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

GF	
GF	

YEAR 2002 | MONTH 2 | DAY 27

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS	YES	NO
TOP	120	TOP 120
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP/ D.OP	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					2.00	3.00	0.25					1.50		3.25								0.75	1.25				12.00
DAY							0.25							3.00								8.75					12.00
EVE																											
TOTAL					2.00	3.00	0.50					1.50		6.25								9.50	1.25				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.

BIT/ MILLS	O.D.mm

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR. : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	GARY FORTH

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	GF
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	GF
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		GF
(2) C.A.O.D.C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		GF
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 27

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: FIRE WATCH

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20 83	E	85	102		230	EMSCO	F800	229
102	41 64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO. | TYPE | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | MIDDLE | BOTTOM

TOP 120 | MIDDLE | BOTTOM

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B O P	TEST B O P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					2.00	3.00	0.25					1.50		3.25								0.75	1.25				12.00
DAY							0.25							3.00								8.75					12.00
EVE																											
TOTAL					2.00	3.00	0.50					1.50		6.25								9.50	1.25				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO. | BIT/ MILLS | O.D.mm

DRILLPIPE | STANDS

DRILLPIPE | SINGLES

KELLY DOWN

TOTAL

WT. OF D.C.

WT. OF STRING

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | Type | SERIAL NO. | JETS (mm) | DEPTH IN (m) | DEPTH OUT (m) | TOTAL METER | TOTAL HOURS

INNER | OUTER | DULL | LOCATION | BEARINGS | GAGE(mm | OTHER | REASON | R.O.P.

1000 daN DRAG daN

1000 daN TORQUE

1000 daN FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME

DENSITY kg/m3

FUNNEL VIS s/l

W.L. cm/ FILCK

PH

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa) | PUMP NO. 1 LINER(mm) SPM | PUMP NO. 2 LINER(mm) SPM

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	11.0	390

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1500	3.00	14	NIPPLE DOWN BOTTOM SPOOL
1500	2345	8.75	22	CUT CONDUCTOR , ready cellor, cut casing, weld on bowl.
2345	2400	0.25	7	RIG SERVICE

Notes: blew boiler down 3 times

DRILLERS SIGNATURE | DARRELL LAPLANTE

DRILLING CREW PAYROLL DATA

WELL NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	2	27

OPERATOR	CONTRACTOR	RIG NO
ANADARKO CANADA ENERGY	AKITA DRILLING LTD	55

RIG MANAGER	PROVINCE	CAMP	RIG SAFETY DAYS
GARY FORTH	N.W.T	X YES ___ NO	9

EVENING TOUR — FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		KEVIN BERGSON	12.00		KB
DERRICK HAND		TIM PREBOY	12.00		TP
MOTOR HAND		ANDY ALBERT	12.00		AA
FLOOR HAND		JIM NEMETH	12.00		JN
FLOOR HAND		PETER MANWART	12.00		PM
LEASE HAND		DARREN HAZENBERG	12.00		DH

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT
		CREW SAFETY DAYS		
		9		

DAY TOUR — FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DARRELL LAPLANTE	12.00		DL
DERRICK HAND		CLINTON GALLIFORD	12.00		CG
MOTOR HAND		JOHN WIPF	12.00		JW
FLOOR HAND		WYATT Boucher	12.00		WB
LEASE HAND		TOM STEWART	12.00		TS

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT
		CREW SAFETY DAYS		
		6		

EVENING SHIFT

LICENCE NO. :

WELL NAME AND NO. : **ANADARKO NETLA A-68**

OPERATOR : **ANADARKO CANADA ENERGY**

CONTRACTOR: **AKITA DRILLING LTD.**

SURFACE LOCATION. : **60:47:07.40 N 122:41:38.90 E**

UNIQUE I.D. :

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

JIM ELLIOTT

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

GARY FORTH

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
JE	GF
	GF
JE	

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

GF
GF

YEAR 2002 | MONTH 2 | DAY 26

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER
TEMPERATURE -20
CONDITIONS
WIND DIRECTION
ROAD CONDITION SLIPPERY

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO. | TYPE | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | TOP 120

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PU/LD BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		1.25			2.75	7.50				0.25		0.25															12.00
DAY					2.75	4.00						4.75									0.50						12.00
EVE																											
TOTAL		1.25			5.50	11.50				0.25		5.00									0.50						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
	BIT/ MILLS	O.D.mm	0.30 m
2.	D C		17.43 m
1	X O		0.67 m
9	D C		85.65 m
1	X O		0.62 m
1	H W D P		9.50 m
1	X O		0.22 m
			m
			m
			m
			m
			m
			m
			m
			m
23	DRILLPIPE	STANDS	441.79 m
1	DRILLPIPE	SINGLES	m
	KELLY DOWN		3.82 m
	TOTAL		560.00 m
	WT. OF D.C.		19 1000 daN
	WT. OF STRING		28 1000 daN

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG.	hughes
Type	qt-1
SERIAL NO.	x16s
JETS (mm)	3 X 15
DEPTH IN (m)	550.00
DEPTH OUT (m)	560.00
TOTAL METER	10.00
TOTAL HOURS	1.25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P

DRAG daN
TORQUE
FILL m

DRILLERS SIGNATURE KEVIN BERGSON

MUD RECORD

WATER BASED | X | OIL BASED

TIME	630
DENSITY kg/m3	1130
FUNNEL VIS s/l	70
W.L. cm/ FILCK	
PH	9.5

MUD MATERIALS USED

TYPE	QTY	UNITS
DESCO	1	
GEL	8	

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
555.00	0.75	

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M	WT. ON BIT
550.00	560.00	D	200	7

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
5200	152.0	85	152.0	85

REDUCED PUMP SPEED

1380 @ 85 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00	1160	1140	1960

HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00	1160	1140	1960

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	370

MACP
MAX HOOKLOAD 41

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	115	1.25	2	DRILL from 550 to 560 m.
115	145	0.50	5	COND MUD & CIRC
145	200	0.25	10	DEV. SURVEY at 555 m.
200	600	4.00	6	TRIPS wiper trip
600	730	1.50	5	COND MUD & CIRC
730	815	0.75	6	TRIPS wiper trip
815	900	0.75	5	COND MUD & CIRC
900	1145	2.75	6	TRIPS P.O.O.H TO RUN CASING, LAY OUT 9 inch DCS
1145	1200	0.25	12	RIG TO RUN CASING

Notes: check crown saver and set for tripping
check dead line anchor visually check brake linkage
247 m.j. at 6:00 total 130928 l.l. 1350

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	GARY FORTH

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	GF
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		GF
(4) Well License & Stick Diagram Posted	JE	
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Hsach and Safety Meeting (one/crew/month)		GF
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		GF
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 26

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -20 | CONDITIONS | WIND DIRECTION | ROAD CONDITION SLIPPERY

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS		YES / NO
TOP	120	TOP 120
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B O P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		1.25			2.75	7 50				0.25		0 25															12 00
DAY					2 75	4 00						4 75									0.50						12 00
EVE																											
TOTAL		1.25			5 50	11 50				0.25		5 00									0 50						24 00

DRILLING ASSEMBLY (AT END OF TOUR)

NO. | BIT/ MILLS | O.D.mm

DRILLPIPE | STANDS

DRILLPIPE | SINGLES

KELLY DOWN

TOTAL

OF D.C.

WT. OF STRING

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | Type | SERIAL NO. | JETS (mm) | DEPTH IN (m) | DEPTH OUT (m) | TOTAL METER | TOTAL HOURS | INNER | OUTER | DULL | LOCATION | BEARINGS | GAGE(mm | OTHER | REASON | ROP

1000 DRAG dan

TORQUE

FILL m

DRILLERS SIGNATURE DARRELL LAPLANTE

MUD RECORD

WATER BASED | X | OIL BASED

TIME

DENSITY kg/m3

FUNNEL VIS s/l

W.L. cm/

FILCK

PH

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Pres. (kPa) 3500

PUMP NO. 1 LINER(mm)	SPM	PUMP NO. 2 LINER(mm)	SPM
152 0	100	152.0	100

REDUCED PUMP SPEED @ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	360

MACP 0

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1215	0.25	12	RUN CASE , RIG UP
1215	1230	0.25	21	SAFETY MTG.
1230	1700	4.50	12	RUN CASE
1700	1815	1.25	5	CIRC CASING
1815	2215	4.00	6	TRIPS RUN IN CEMENT STINGER
2215	2345	1.50	5	CIRCULATE CSG.
2345	2400	0.25	21	SAFETY MTG. FOR CEMENTING
2400				

Notes: CHECK CROWN SAVER AND BRAKES

DRILLING CREW PAYROLL DATA

WI AVE. & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	2	26

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD

RIG MANAGER	RIG NO
GARY FORTH	55

PROVINCE	CAMP				RIG SAFETY DAYS
N.W.T		X	YES	NO	8

EVENING TOUR	FROM 0	TO 1200		INJURIES	
CREW	SOC. INS. NO.	NAME	HOURS	YES	NO
DRILLER		KEVIN BERGSON	12.00		KB
DERRICK HAND		TIM PREBOY	12.00		TP
MOTOR HAND		ANDY ALBERT	12.00		AA
FLOOR HAND		JIM NEMETH	12.00		JN
FLOOR HAND		PETER MANWART	12.00		PM
LEASE HAND		DARREN HAZENBERG	12.00		DH

RATE SCHEDULE	X	REGULAR	REPAIR		INVERT
		CREW SAFETY DAYS			
		8			

DAY TOUR	FROM 1200	TO 2400		INJURIES	
CREW	SOC. INS. NO.	NAME	HOURS	YES	NO
DRILLER		DARRELL LAPLANTE	12.00		DL
DERRICK HAND		CLINTON GALLIFORD	12.00		CG
MOTOR HAND		JOHN WIPF	12.00		JW
FLOOR HAND		WYATT Boucher	12.00		WB
LEASE HAND		TOM STEWART	12.00		TS

RATE SCHEDULE	X	REGULAR	REPAIR		INVERT
		CREW SAFETY DAYS			
		5			

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	GARY FORTH

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	GF
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	GF
(4) Well License & Stick Diagram Posted		GF
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	
(1) Rig Site Health and Safety Meeting (one/crew/month)		GF
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		GF
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 25

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 120 | BOILER 192

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS	YES	NO
TOP 120	TOP 120	
MIDDLE	MIDDLE	
BOTTOM	BOTTOM	

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETINGS						
MORN		1.75	0.50		1.25	8.50																					12.00
DAY			5.75		0.50	4.75	0.25		0.75																		12.00
EVE																											
TOTAL		1.75	6.25		1.75	13.25	0.25		0.75																		24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	0.30 m
2	DC		17.43 m
1	XO		0.67 m
9	DC		85.65 m
1	XO		0.62 m
9	HWDP		82.27 m
1	XO		0.22 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
18	DRILLPIPE	STANDS	345.97 m
1	DRILLPIPE	SINGLES	9.63 m
	KELLY DOWN		7.29 m
	TOTAL		550.00 m
	WT. OF D.C.		19 1000 dan
	WT. OF STRING		29 1000 dan

DRILLERS SIGNATURE | KEVIN BERGSON

BIT RECORD

BIT NO.	1A
SIZE (mm)	311.0
IADC CODE	
MFG.	HUGHES
Type	ATJ
SERIAL NO.	P75EM
JETS (mm)	3 X 15
DEPTH IN (m)	0.00
DEPTH OUT (m)	
TOTAL METER	429.00
TOTAL HOURS	37.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | X | OIL BASED

TIME	410
DENSITY kg/m3	1120
FUNNEL VIS s/l	68
W.L. cm/ FILCK	
PH	9.5

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
535.00	550.00	D	200	8

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
5500	152.0	85	152.0	85

REDUCED PUMP SPEED: 1400 @ 85 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	365

MACP

MAX HOOKLOAD 45

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	145	1.75	2	DRILL from 535 to 550
145	215	0.50	5	COND MUD bottoms up
215	300	0.75	6	rig to and wiper trip
300	315	0.25	5	COND MUD & CIRC
315	400	0.75	6	TRIPS lay down singles
400	430	0.50	3	REAMING wash to bottom hard fill at 521to526
430	500	0.50	5	COND MUD & CIRC
500	1200	7.00	6	TRIPS pooh /strap /PULLED TIGHT, BACK REAM OUT

Notes: check crown saver and set for tripping

boiler blown 3@12 sec.

MJ. 9285 TOTAL 129780

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR. : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	GARY FORTH

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	GF
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	GF
(4) Well Licensc & Stick Diagram Posted		GF
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	
(1) Rig Site Health and Safety Meeting (one/crew/month)		GF
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		GF
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 25

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 120 | BOILER 192

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO. | TYPE | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | MIDDLE | BOTTOM

TOP 120 | MIDDLE | BOTTOM

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		1.75	0.50		1.25	8.50																					12.00
DAY			5.75		0.50	4.75	0.25		0.75																		12.00
EVE																											
TOTAL		1.75	6.25		1.75	13.25	0.25		0.75																		24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm		
	BIT/ MILLS	O.D.mm	0.30	m
2	D C		17.43	m
1	X O		0.67	m
9	D C		85.65	m
1	X O		0.62	m
1	H W D P		9.50	m
1	X O		0.22	m
				m
				m
				m
				m
				m
				m
				m
				m
				m
				m
				m
				m
	DRILLPIPE	STANDS	422.59	m
1	DRILLPIPE	SINGL S	9.60	m
	KELLY DOWN		3.42	m
	TOTAL		550.00	m
	WT. OF D.C.		19	1000 daN
	WT. OF STRING		28	1000 daN

DRILLERS SIGNATURE: DARRELL LAPLANTE

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG	hughes
Type	gl-1
SERIAL NO	x16s
JETS (mm)	3 X 15
DEPTH IN (m)	550.00
DEPTH OUT (m)	
TOTAL METER	0.00
TOTAL HOURS	0.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | X | OIL BASED

TIME	
DENSITY kg/m3	
FUNNEL VIS s/l	
W.L cm/ FILCK	
PH	

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
245.00	550.00	R	200	3

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
5100	152.0	85	152.0	85

REDUCED PUMP SPEED: 1350 @ 85 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	9.5	380

MACP

MAX HOOKLOAD: 36

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1300	1.00	6	TRIPS P.O.O.H
1300	1500	2.00	6	TRIPS CHANGE OUT BIT, R,I,H
1500	1545	0.75	9	CUT OFF DRLL LINE 10m
1545	1730	1.75	6	TRIPS r.i.h pick up 19 single d.p. ream most of the way to btm
1730	2315	5.75	3	REAMING from 245 to 550m.
2315	2330	0.25	7	RIG SERVICE
2330	2400	0.50	5	COND MUD & CIRC

Notes: checked crown saver Inspected brakelinkage

boiler blown 3@15 sec.

DRILLING CREW PAYROLL DATA

WELL NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	2	25

OPERATOR	CONTRACTOR	RIG NO
ANADARKO CANADA ENERGY	AKITA DRILLING LTD.	55

RIG MANAGER	PROVINCE	CAMP	RIG SAFETY DAYS
GARY FORTH	N.W.T.	X YES NO	7

EVENING TOUR FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		KEVIN BERGSON	12.00		KB
DERRICK HAND		TIM PREBOY	12.00		TP
MOTOR HAND		ANDY ALBERT	12.00		AA
FLOOR HAND		JIM NEMETH	12.00		JN
FLOOR HAND		PETER MANWART	12.00		PM
LEASE HAND		DARREN HAZENBERG	12.00		DH

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT

CREW SAFETY DAYS: 7

DAY TOUR FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DARRELL LAPLANTE	12.00		DL
DERRICK HAND		CLINTON GALLIFORD	12.00		CG
MOTOR HAND		JOHN WIPF	12.00		JW
FLOOR HAND		WYATT Boucher	12.00		WB
LEASE HAND		TOM STEWART	12.00		TS

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT

CREW SAFETY DAYS: 4

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR. : ANADARKO CANADA ENERGY		CONTRACTOR : AKITA DRILLING LTD.	
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		GARY FORTH	SAFETY TOPIC

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	QF
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	QF
(4) Well License & Stick Diagram Posted		QF
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A .O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		QF
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 24

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 82 | BOILER 40

WEATHER: TEMPERATURE -23 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS		YES / NO
TOP	120	TOP 120
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	FLOW CHEC					
MORN		10.25					0.25			1.50																	12.00
DAY		9.75			1.00		0.25			0.75												0.25					12.00
EVE																											
TOTAL		20.00			1.00		0.50			2.25												0.25					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
2	DC .		17 43
1	XO		0 67
9	DC		85 65
1	XO		0 62
9	HWDP		82 27
1	XO		0 22
17	DRILLPIPE	STANDS	326.76
1	DRILLPIPE	SINGLES	9.60
	KELLY DOWN		12.09
	TOTAL		535.61
	WT. OF D.C.		19
	WT. OF STRING		24

DRILLERS SIGNATURE | DARRELL LAPLANTE

BIT RECORD

BIT NO.	1A
SIZE (mm)	311.0
IADC CODE	
MFG.	HUGHES
Type	ATJ
SERIAL NO	P75EM
JETS (mm)	3 X 15
DEPTH IN (m)	0.00
DEPTH OUT (m)	
TOTAL METER	429.00
TOTAL HOURS	35.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(in)	OTHER	REASON	R.O.P.

1000 daN DRAG daN	1 up 1 dow
1000 daN TORQUE	397
1000 daN FILL m	0.50

MUD RECORD

WATER BASED | X | OIL BASED

TIME	1400	1800	2000
DENSITY kg/m3	1120	1130	1130
FUNNEL VIS s/l	75	80	85
W.L. cm/ FILCK			
PH	10.0	10.0	9.0

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	16	SX
SAWDUST		SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
439.00	0.50	
468.00	0.50	
497.00	0.50	
524.00	0.75	

METERS DRILLED

FROM	TO	DRILL/ REAM/CR	ROTARY R.P.M.	WT. ON BIT
429.00	535.00	D	200	7

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
7520	152.0	85	152.0	85

REDUCED PUMP SPEED: 1420 @ 85 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW
0.00			

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00		1110	1800
8.00		1110	1800

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	360

MACP 0

MAX HOOKLOAD 29

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	2145	9.75	2	DRILL F/429m- TO 535 M.
2145	2230	0.75	10	DEV. SURVEY TOTAL TIME
2230	2245	0.25	22	FLOW CHECK NO FLOW RECORDED
2245	2345	1.00	5	COND MUD & CIRC
2345	2400	0.25	7	RIG SERVICE funtion diverter 14 sec close
2400				

Notes: CHECK CROWN SAVER AND BRAKES

BLEW BOILER DOWN 3 TIMES

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR : ANADARKO CANADA ENERGY		CONTRACTOR : AKITA DRILLING LTD.	
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		GARY FORTH	

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
JE	GF
JE	GF
	GF
JE	

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

GF

YEAR 2002 | MONTH 2 | DAY 24

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 82 | BOILER 40

WEATHER: TEMPERATURE -23 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

OC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO.	TYPE	TYPE

CHANGE SCREENS [ ] YES [ ] NO

TOP	120	TOP	120
MIDDLE		MIDDLE	
BOTTOM		BOTTOM	

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	FLOW CHEC					
MORN		10.25					0.25			1.50																	
DAY		9.75			1.00		0 25			0.75												0.25					12.00
EVE																											12.00
TOTAL		20.00			1.00		0 50			2.25												0.25					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm		
2	DC		17 43	m
1	XO		0 67	m
9	DC		85 65	m
1	XO		0.62	m
9	HWDP		82 27	m
1	XO		0 22	m
				m
				m
				m
				m
				m
				m
				m
				m
				m
12	DRILLPIPE	STANDS	230.59	m
	DRILLPIPE	SINGLES		m
	KELLY DOWN		12.09	m
	TOTAL		429.84	m
	D.C.		19	1000 dan
	WT. OF STRING		24	1000 dan

BIT RECORD

0 30	m	BIT NO.	1A
		SIZE (mm)	311.0
		IADC CODE	
		MFG.	HUGHES
		Type	ATJ
		SERIAL NO.	P75EM
		JETS (mm)	3 X 15
		DEPTH IN (m)	0.00
		DEPTH OUT (m)	
		TOTAL METER	429.00
		TOTAL HOURS	26.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P
								15.50

DRAG dan 2UP 3DOWN
TORQUE 325
FILL m 0.50

DRILLERS SIGNATURE KEVIN BERGSON

MUD RECORD

WATER BASED [ ] OIL BASED [ ]

TIME	30	300	900
DENSITY kg/m3	1110	1120	1130
FUNNEL VIS s/l	50	54	43
W.L. cm/ FILCK			
PH	11.5	11.5	11.0

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
235 00	0.25	
264.00	0.50	
293 00	0.50	
322.00	0.75	
350.00	0.50	

METERS DRILLED

FROM	TO	DRILL/ REAM/CR	ROTARY R.P.M.	WT. ON BIT
247 00	350 00	D	200	7
350 00	362 00	D	200	5
362 00	429 00	D	200	7

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
5700	152.0	85	152 0	85

REDUCED PUMP SPEED: 1400 @ 59 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
12 00	1110	1120	1800
HOURS	INTAKE	OVERFLOW	UNDERFLOW
12 00	1110	1120	1800

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	385

MACP
MAX HOOKLOAD 27

TIME LOG

FROM	TO	ELAPSED TIME	CODE
0	1015	10:25	2
1015	1145	1.50	10
1145	1200	0.25	7
1200			

TIME DETAIL

DRILL FROM 247 M TO 429m
DEV. SURVEY TOTTAL TIME 90 min
RIG SERVICE

Notes: CHECKED BRAKE LINKAGE AND FUNTIONED CHECKED CROWN SAVER
BOILER BLOWN 3@15 SEC. FUNTION MOTOR KILLS
ACCULATIVE M.J.8376 TOTAL M.J. 128819

DRILLING CREW PAYROLL DATA

WELL NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	2	24

OPERATOR	CONTRACTOR	RIG NO
ANADARKO CANADA ENERGY	AKITA DRILLING LTD	55

RIG MANAGER	PROVINCE	CAMP	RIG SAFETY DAYS
GARY FORTH	N.W.T.	X YES NO	6

EVENING TOUR — FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		KEVIN BERGSON	12 00		KB
DERRICK HAND		TIM PREBOY	12 00		TP
MOTOR HAND		ANDY ALBERT	12 00		AA
FLOOR HAND		JIM NEMETH	12 00		JN
FLOOR HAND		PETER MANWART	12 00		PM
LEASE HAND		DARREN HAZENBERG	12 00		DH

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT

CREW SAFETY DAYS: 6

DAY TOUR — FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DARRELL LAPLANTE	12 00		DL
DERRICK HAND		CLINTON GALLIFORD	12 00		CG
MOTOR HAND		JOHN WIPF	12 00		JW
FLOOR HAND		WYATT Boucher	12 00		WB
LEASE HAND		TOM STEWART	12 00		TS

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT

CREW SAFETY DAYS:

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR. : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	GARY FORTH

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	GF
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	
(4) Well License & Stick Diagram Posted		GF
(5) Flare Lines Staked		GF
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		GF
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 23

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 122 | BOILER 73

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO. | TYPE | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | TOP 120

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	FLOW NIPP					
MORN		6.00			0.50	4.50	0.25			0.50											0.25						12.00
DAY		9.75					0.25			1.25												0.75					12.00
EVE																											
TOTAL		15.75			0.50	4.50	0.50			1.75											0.25	0.75					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	0.30 m
1	BIT SUB		0.86 m
	X.O		0.21 m
	X.O		0.32 m

DRILLPIPE STANDS m

DRILLPIPE SINGLES m

KELLY DOWN m

TOTAL 1.69 m

WT. OF D.C. 1000 dan

WT. OF STRING 1000 dan

DRILLERS SIGNATURE KEVIN BERGSON

BIT RECORD

BIT NO.	1A
SIZE (mm)	311.0
IADC CODE	
MFG.	HUGHES
Type	ATJ
SERIAL NO.	P75EM
JETS (mm)	3 X 15
DEPTH IN (m)	0.00
DEPTH OUT (m)	
TOTAL METER	89.00
TOTAL HOURS	6.00
DRAG dan	0
TORQUE	235
FILL m	

INNER | OUTER | DULL | LOCATION | BEARINGS | GAGE(mm | OTHER | REASON | R.O.P.

17.80

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
30.00	0.25	
59.00	0.50	

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
0.00	89.00	D	180	5

Circ. Press (kPa) 2100

PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
152.0	100	152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS | INTAKE | OVERFLOW | UNDERFLOW

CENTRIFUGE

HOURS | INTAKE | OVERFLOW | UNDERFLOW

HOURS | INTAKE | OVERFLOW | UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	380

MACP

MAX HOOKLOAD 15

TIME LOG

FROM	TO	ELAPSED TIME	CODE
0.	100	1.00	2
100	115	0.25	7
115	130	0.25	21
130	400	2.50	6
400	515	1.25	2
515	530	0.25	10
530	645	1.25	2
645	700	0.25	10
700	930	2.50	2
930	1000	0.50	5
1000	1200	2.00	6
1200			

TIME DETAIL

DRILL SPUD WELL WITH 311 BIT

RIG SERVICE

S.\FETY MTG.

TRIPS CHANGE UP BHA

DRILL

DEV. SURVEY AT 30 M. IS 1/4 DEG.

DRILL

DEV. SURVEY AT 59M.

DRILL TO 89m

CIRC HOLE CLEAN

TRIPS CHANGE OUT B.H.A

Notes: CHECK BRAKLINKAGE CROWN SAVER

BOILER BLOWN 3@15SEC.

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR : ANADARKO CANADA ENERGY		CONTRACTOR : AKITA DRILLING LTD.	
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		GARY FORTH	SAFETY TOPIC

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	GF
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	JE	
(4) Well License & Stick Diagram Posted		GF
(5) Flare Lines Staked		GF
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		GF
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 23

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 122 | BOILER 73

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	0.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
102	20.83	E	85	102		230	EMSCO	F800	229
102	41.64	HEVI W	65	102		30	EMSCO	F800	229

SHALE SHAKER(S)

NO. | TYPE | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | TOP 120

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS / SERVICES	Morn	Day	Eve
CENTRIFUGE			
CAMP WATER SYSTEM			
CREW VEHICLE			
CATCH TANKS			
PENLESS RECORDER			

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	FLOW NIPP					
MORN		6.00			0.50	4.50	0.25			0.50											0.25						12.00
DAY		9.75					0.25			1.25												0.75					12.00
EVE																											
TOTAL		15.75			0.50	4.50	0.50			1.75											0.25	0.75					24 00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm		
	BIT/ MILLS	O.D.mm	0 30	m
2	D C		17 43	m
1	X O		0 67	m
9	D C		85 65	m
1	X O		0 62	m
9	H W D P		82 27	m
1	X O		0 22	m
				m
				m
				m
				m
				m
				m
				m
				m
				m
2	DRILLPIPE	STANDS	38.49	m
1	DRILLPIPE	SINGLES	9.60	m
	KELLY DOWN		12.09	m
	TOTAL		247.34	m
	WT. OF D.C.		19	1000 dan
	WT. OF STRING		24	1000 dan

DRILLERS SIGNATURE | DARRELL LAPLANTE

BIT RECORD

BIT NO.	1A
SIZE (mm)	311.0
IADC CODE	
MFG.	HUGHES
Type	ATJ
SERIAL NO.	P75EM
JETS (mm)	3 X 15
DEPTH IN (m)	0.00
DEPTH OUT (m)	
TOTAL METER	247.00
TOTAL HOURS	15.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R O P

DRAG dan	2/3 UP/ DO
TORQUE	350
FILL m	0.50

MUD RECORD

WATER BASED | X | OIL BASED

TIME	1300	1500	1830
DENSITY kg/m3	1100	1090	1080
FUNNEL VIS s/l	45	63	57
W.L. cm/ FILCK			
PH	11.0	11.0	11 0

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
97.00	0.25	
126.00	0.25	
153.00	0.25	
181.00	0.75	
206.00	0.50	

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
89.00	247 00	D	200	7

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
5150	152.0	85	152 0	85

REDUCED PUMP SPEED

@ 0 | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW
0.00			

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
6.00			

HOURS	INTAKE	OVERFLOW	UNDERFLOW
6.00			

BOILER

HRS. RUN	PH	STACK deg
12.00	11.0	380

MACP 0

MAX HOOKLOAD 26

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1200	1745	5.75	2	DRILL F/89m-171m
1745	1830	0.75	22	extend flow nipple
1830	2230	4.00	2	DRILL F/171m TO 247 M.
2230	2245	0.25	7	RIG SERVICE
2245	2400	1.25	10	DEV. SURVEY time
2400				

Notes: check crown saver and brakes blew boiler down 3 times

DRILLING CREW PAYROLL DATA

1 NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	2	23

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD

RIG MANAGER	RIG NO
GARY FORTH	55

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T	[X] YES [ ] NO	5

EVENING TOUR FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO.
DRILLER		KEVIN BERGSON	12.00		KB
DERRICK HAND		TIM PREBOY	12.00		TP
MOTOR HAND		ANDY ALBERT	12.00		AA
FLOOR HAND		JIM NEMETH	12.00		JN
FLOOR HAND		PETER MANWART	12.00		PM
LEASE HAND		DARREN HAZENBERG	12.00		DH

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT

CREW SAFETY DAYS
5

DAY TOUR FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DARRELL LAPLANTE	12.00		DL
DERRICK HAND		CLINTON GALLIFORD	12.00		CG
MOTOR HAND		JOHN WIPF	12.00		JW
FLOOR HAND		WYATT Boucher	12.00		WB
LEASE HAND		TOM STEWART	12.00		TS

RATE SCHEDULE	X	REGULAR	REPAIR	INVERT

CREW SAFETY DAYS
2

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR. : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	GARY FORTH

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	GF
(2) Detailed Inspection-Weekly (Using Check List)	JE	
(3) H2S Signs Posted(If Required)		GF
(4) Well License & Stick Diagram Posted	JE	GF
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	
(1) Rig Site Health and Safety Meeting (one/crew/month)		GF
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		GF
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 22

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 170 | BOILER 52

WEATHER: TEMPERATURE; CONDITIONS; WIND DIRECTION; ROAD CONDITION

SAFETY TOPIC

	O.D. mm	MIN. I.D	k/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING									
TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS		YES / NO
TOP	120	TOP 120
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV SURVEY	WIRE LINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN	12.00																										12.00
DAY	10.50						0.25								1.00						0.25						12.00
EVE																											
TOTAL	22.50						0.25								1.00						0.25						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
	WT. OF D.C.		1000 daN
	WT. OF STRING		1000 daN

BIT RECORD

BIT NO.										
SIZE (mm)										
IADC CODE										
MFG.										
Type										
SERIAL NO										
JETS (mm)										
DEPTH IN (m)										
DEPTH OUT (m)										
TOTAL METER										
TOTAL HOURS										
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.	

DRAG daN

TORQUE

FILL m

DRILLERS SIGNATURE KEVIN BERGSON

MUD RECORD

WATER BASED | OIL BASED

TIME	
DENSITY kg/m3	
FUNNEL VIS s/l	
W.L. cm/ FILCK	
PH	

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	40	SX
CAUSTIC	1	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)

PUMP NO. 1		PUMP NO. 2	
LINER(mm)	SPM	LINER(mm)	SPM
152.0		152.0	

REDUCED PUMP SPEED @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	10.5	370

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	1200	12.00	1	RIG UP
1200				

Notes:

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR. : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	GARY FORTH

	Opr.	R.M.
(1) Daily Walk Around Inspection	JE	GF
(2) Detailed Inspection-Weekly (Using Check List)	JE	
(3) H2S Signs Posted(If Required)		GF
(4) Well License & Stick Diagram Posted	JE	GF
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	JE	
(1) Rig Site Health and Safety Meeting (one/crew/month)		GF
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		GF
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 22

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 170 | BOILER 52

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE

CHANGE SCREENS | YES | NO

TOP	120	TOP	120
MIDDLE		MIDDLE	
BOTTOM		BOTTOM	

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN	12.00																										
DAY	10.50						0.25								1.00						0.25						12.00
EVE																											12.00
TOTAL	22.50						0.25								1.00						0.25						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm

DRILLING CREW PAYROLL DATA

WELL NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	2	22

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD.

RIG MANAGER	RIG NO
GARY FORTH	55

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	☐ YES ☐ NO	4

EVENING TOUR — FROM 0 TO 1200

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		KEVIN BERGSON	12 00		KB
DERRICK HAND		TIM PREBOY	12 00		TP
MOTOR HAND		ANDY ALBERT	12 00		AA
FLOOR HAND		JIM NEMETH	12 00		JN
FLOOR HAND		PETER MANWART	12 00		PM
LEASE HAND		DARREN HAZENBERG	12.00		DH

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS

4

DAY TOUR — FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DARRELL LAPLANTE	12 00		DL
DERRICK HAND		CLINTON GALLIFORD	12 00		CG
MOTOR HAND		JOHN WIPF	12 00		JW
FLOOR HAND		WYATT Boucher	12 00		WB
FLOOR HAND		JESSE ANDERSON			
LEASE HAND		TOM STEWART	12 00		TS

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS

1

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO RETLA A-68
OPERATOR : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	GARY FORTH

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
JE	TI

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

GF

YEAR 2002 | MONTH 2 | DAY 21

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 200 | BOILER

WEATHER: TEMPERATURE -20 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE

CHANGE SCREENS YES NO

TOP | TOP
MIDDL. | MIDDLE
BOTTOM | BOTTOM

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CSG. & CEMENT	PART OF CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN	12.00																										12.00
DAY	12.00																										12.00
EVE																											
TOTAL	24.00																										24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO. | BIT/ MILLS | O.D.mm

DRILLPIPE STANDS
DRILLPIPE SINGLES
KELLY DOWN
TOTAL
WT. OF D.C.
WT. OF STRING
DRILLERS SIGNATURE

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
Type
SERIAL NO.
JETS (mm)
DEPTH IN (m)
DEPTH OUT (m)
TOTAL METER
TOTAL HOURS
INNER | OUTER | DULL | LOCATION | BEARINGS | GAGE(mm | OTHER | REASON | R.O.P.
DRAG daN
TORQUE
FILL m.

MUD RECORD

WATER BASED | OIL BASED

TIME
DENSITY kg/m3
FUNNEL VIS s/l
W.L. cm/ FILCK
PH

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED @ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	9.0	370

MACP
MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	800	8.00	1	RIG UP & TEAR DOWN-inspectede derrick, raised derrick
800	1200	4.00	1	weld conductor flange for deverter

Notes: MJ- 7835 ,TMJ-128330 ,LL-1319
Insected derrick prior to raising

DAY SHIFT

LICENCE NO. :

WELL NAME AND NO. : **ANADARKO NETLA A-68**

OPERATOR. : **ANADARKO CANADA ENERGY**

CONTRACTOR : **AKITA DRILLING LTD.**

SURFACE LOCATION. : **60:47:07.40 N 122:41:38.90 E**

UNIQUE I.D. :

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

JIM ELLIOTT

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

GARY FORTH

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
JE	TI

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

GF

YEAR 2002 | MONTH 2 | DAY 21

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG 200 | BOILER

WEATHER: TEMPERATURE -20 | CONDITIONS | WIND DIRECTION | ROAD CONDITION ICE

SAFETY TOPIC pre-spud

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE

CHANGE SCREENS YES NO

TOP		TOP
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN	12.00																										
DAY	12.00																										12.00
EVE																											12.00
TOTAL	24.00																										24 00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm
	DRILLPIPE	STANDS
	DRILLPIPE	SINGLES
	KELLY DOWN	
	TOTAL	
	WT. OF D.C.	
	WT. OF STRING	

DRILLERS SIGNATURE

BIT RECORD

	BIT NO.	SIZE (mm)	IADC CODE	MFG.	Type	SERIAL NO.	JETS (mm)	DEPTH IN (m)	DEPTH OUT (m)	TOTAL METER	TOTAL HOURS	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P
m																				
m																				
m																				
m																				
m																				
m																				
m																				
m																				
m																				
m																				
m																				
m																				
m																				
m																				
1000 dan	DRAG dan																			
1000 dan	TORQUE																			
1000 dan	FILL m																			

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME	
DENSITY kg/m3	
FUNNEL VIS s/l	
W.L cm/ FILCK	
PH	

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
12.00	11.0	375

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE
1200	1445	2.75	1
1445	2400	9.25	1
2400			

TIME DETAIL

weld condutor flang and flow tee

RIG UP diverter and boyle line,

Notes:

DRILLING CREW PAYROLL DATA

WELL NAME & NO	YEAR	MONTH	DAY
ANADARKO NETLA A-68	2002	2	21

OPERATOR	CONTRACTOR
ANADARKO CANADA ENERGY	AKITA DRILLING LTD

RIG MANAGER	RIG NO
TONY IRWIN	55

PROVINCE	CAMP	YES	NO	RIG SAFETY DAYS
N.W.T				3

EVENING TOUR — FROM 0 TO 1200

CREW	SOC. INS. NO	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DAVE RYAN	8.00		
DERRICK HAND		MIKE BARANIUK	8.00		
MOTOR HAND		Graeme McWha	8.00		
FLOOR HAND		JOHN PAUL	8.00		
FLOOR HAND		MICHAEL SAM	8.00		

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 3

DAY TOUR — FROM 1200 TO 2400

CREW	SOC. INS. NO.	NAME	HOURS	INJURIES YES	INJURIES NO
DRILLER		DARRELL LAPLANTE	8.00		DL
DERRICK HAND		CLINTON GALLIFORD	8.00		CG
MOTOR HAND		JOHN WIPF	2.00		JW
FLOOR HAND		WYATT Boucher	8.00		WB
FLOOR HAND		JESSE ANDERSON	8.00		JA
LEASE HAND		TOM STEWART	2.00		TS
DRILLER		KEVIN BERGSON	8.00		KB
DERRICK HAND		TIM PREBOY	8.00		TP
MOTOR HAND		ANDY ALBERT	8.00		AA
FLOOR HAND		JIM NEMETH	8.00		JN
FLOOR HAND		PETER MANWART	8.00		PM
LEASE HAND		DARREN HAZENBERG	8.00		DH

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS:

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68		
OPERATOR. : ANADARKO CANADA ENERGY		CONTRACTOR : AKITA DRILLING LTD.	
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E		UNIQUE I.D. :	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
JIM ELLIOTT		TONY IRWIN	SAFETY TOPIC

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 20

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING									
TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO. | TYPE | TYPE

CHANGE SCREENS YES NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN	4.00																				0.50						4.50
DAY	12.00																										12.00
EVE																											
TOTAL	16.00																				0.50						16.50

NO. DRILLING ASSEMBLY (AT END OF TOUR)

BIT/ MILLS | O.D.mm

DRILLPIPE | STANDS

DRILLPIPE | SINGLES

KELLY DOWN

TOTAL

WT. OF D.C.

WT. OF STRING

DRILLERS SIGNATURE | DAVE RYAN

BIT RECORD

	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
BIT NO.																	
SIZE (mm)																	
IADC CODE																	
MFG.																	
Type																	
SERIAL NO.																	
JETS (mm)																	
DEPTH IN (m)																	
DEPTH OUT (m)																	
TOTAL METER																	
TOTAL HOURS																	
INNER																	
OUTER																	
DULL																	
LOCATION																	
BEARINGS																	
GAGE(mm																	
OTHER																	
REASON																	
R.O.P.																	

1000 dan DRAG dan

1000 dan TORQUE

1000 dan FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME

DENSITY kg/m3

FUNNEL VIS s/l

W.L. cm/ FILCK

PH

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
0.00		

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	
730	800	0.50	21	SAFETY MTG.
800	1200	4.00	1	RIG UP
1200				

TIME DETAIL

Notes:

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : ANADARKO NETLA A-68
OPERATOR. : ANADARKO CANADA ENERGY	CONTRACTOR : AKITA DRILLING LTD.
SURFACE LOCATION. : 60:47:07.40 N 122:41:38.90 E	UNIQUE I.D. :
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
JIM ELLIOTT	TONY IRWIN

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

Opr.	R.M.

YEAR 2002 | MONTH 2 | DAY 20

RIG NO.: 55

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO. | TYPE | TYPE

CHANGE SCREENS | YES | NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN	4.00																				0.50						4.50
DAY	12.00																										12.00
EVE																											
TOTAL	16.00																				0.50						16.50

NO. | D. LLING ASSEMBLY (AT END OF TOUR) | BIT/ MILLS | O.D.mm

DRILLPIPE | STANDS

DRILLPIPE | SINGLES

KELLY DOWN

TOTAL

WT. OF D.C.

WT. OF STRING

DRILLERS SIGNATURE | DAVE RYAN

BIT RECORD

m	BIT NO.											
m	SIZE (mm)											
m	IADC CODE											
m	MFG.											
m	Type											
m	SERIAL NO.											
m	JETS (mm)											
m	DEPTH IN (m)											
m	DEPTH OUT (m)											
m	TOTAL METER											
m	TOTAL HOURS											
m		INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.		
m												
1000 daN	DRAG daN											
1000 daN	TORQUE											
1000 daN	FILL m											

MUD RECORD

WATER BASED | OIL BASED

TIME	
DENSITY kg/m3	
FUNNEL VIS s/l	
W.L. cm/ FILCK	
PH	

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
0.00		

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
730	800	0.50	21	SAFETY MTG:
800	1200	4.00	1	RIG UP
1200				

Notes:

CREW LIST

POSITION	NAME	INITIALS
OPERATOR	DEFAULT PASON REPRESENTATIVE	PR
RIG MANAGER	TONY IRWIN	TI
DRILLER	DAVE RYAN	DR
DERRICK HAND	MIKE BARANIUK	MB
DERRICK HAND	TIM PREBOY	TP
DERRICK HAND	CLINTON GALLIFORD	CG
FLOOR HAND	MICHAEL SAM	MS
FLOOR HAND	JOHN PAUL	JP
LEASE HAND	JIMMY TIMBRE	JT
DRILLER	KEVIN BERGSON	KB
WELL SITE CORD	LOUIS SIMONKA	LS
MOTOR HAND	ANDY ALBERT	AA
FLOOR HAND	JIM NEMETH	JN
FLOOR HAND	PETER MANWART	PM
FLOOR HAND	JESSE ANDERSON	JA
OPERATOR	JIM ELLIOTT	JE
DRILLER	DARRELL LAPLANTE	DL
DERRICK HAND	TONY MADEIRA	TM
LEASE HAND	RUFUS SANGUEZ	RS
RIG MANAGER	GARY FORTH	GF
MOTOR HAND	KEVIN SHERREN	KS
FLOOR HAND	WYATT Boucher	WB
MOTOR HAND	Graeme McWha	GM
LEASE HAND	DARREN HAZENBERG	DH

ADDITIONAL INFORMATION

SYNTEHTIC SEISMOGRAM

OVERSIZED

DOCUMENT

FILMED

ON

35mm